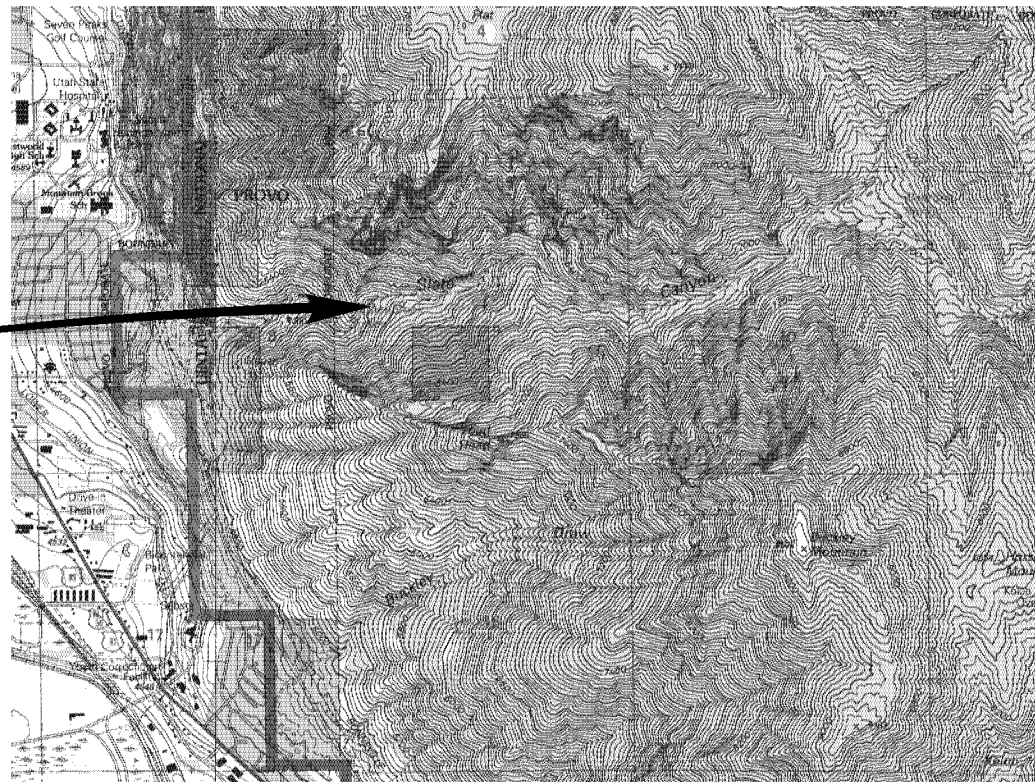


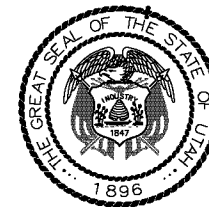
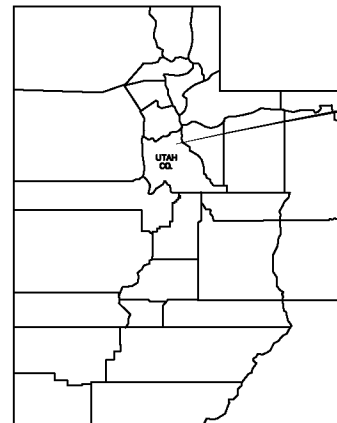
# CONSTRUCTION DRAWINGS FOR SLATE CANYON WATER PIPELINE DFCM PROJECT NO. 00144420

MARCH, 2006

LOCATION MAP



VICINITY MAP



State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION  
AND MANAGEMENT

4110 State Office Building/Salt Lake City, Utah 84114/538-3018

## CERTIFICATION OF ENGINEER

I HEREBY CERTIFY THAT THESE PLANS FOR THE SLATE CANYON  
WATER SYSTEM WERE PREPARED UNDER MY SUPERVISION FOR  
THE OWNERS THEREOF.



**PSOMAS**

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Engineers  
Surveyors  
Planners

PSOMAS JOB NO. — 8DFC010100

PSOMAS

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Salt Lake City, Utah 84123  
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CREATED BY: PSOMAS



PROJECT NAME

SLATE CANYON  
PROVO, UTAH

PROJECT TITLE

WATER  
PIPELINE  
REPLACEMENT

OWNER

STATE HOSPITAL

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006	
DFCM PROJECT NO. :	00144420
PROJECT NUMBER:	8DFC010100
DRAWING FILE:	U:\B0F0010100\WATERS\DWG\SHEET\5\FINAL DESIGN\SHEET C-101.DWG
DRAWN BY:	JWH
CHECKED BY:	MDC
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SHEET TITLE  
DRAWING INDEX  
LEGEND

SHEET NUMBER

C-101

1 OF 42

LEGEND

	AIR VENT/PLAN		STREAM BANKS
	EARTH		TRAIL
	AGGREGATE		STREAM FLOWLINE
	CONCRETE		EXISTING EXPOSED WATERLINE
	BENTONITE/CLAY		EXISTING BURIED WATERLINE
	GATE VALVE		GAS LINE
	TREES/VEGETATION		OVERHEAD POWER LINES
	FENCE		BENCH MARK
	PROPERTY BOUNDARY		AIR VENT/PROFILE
	TEMPORARY CONSTRUCTION EASEMENT		
	SILT FENCE		

ABBREVIATIONS

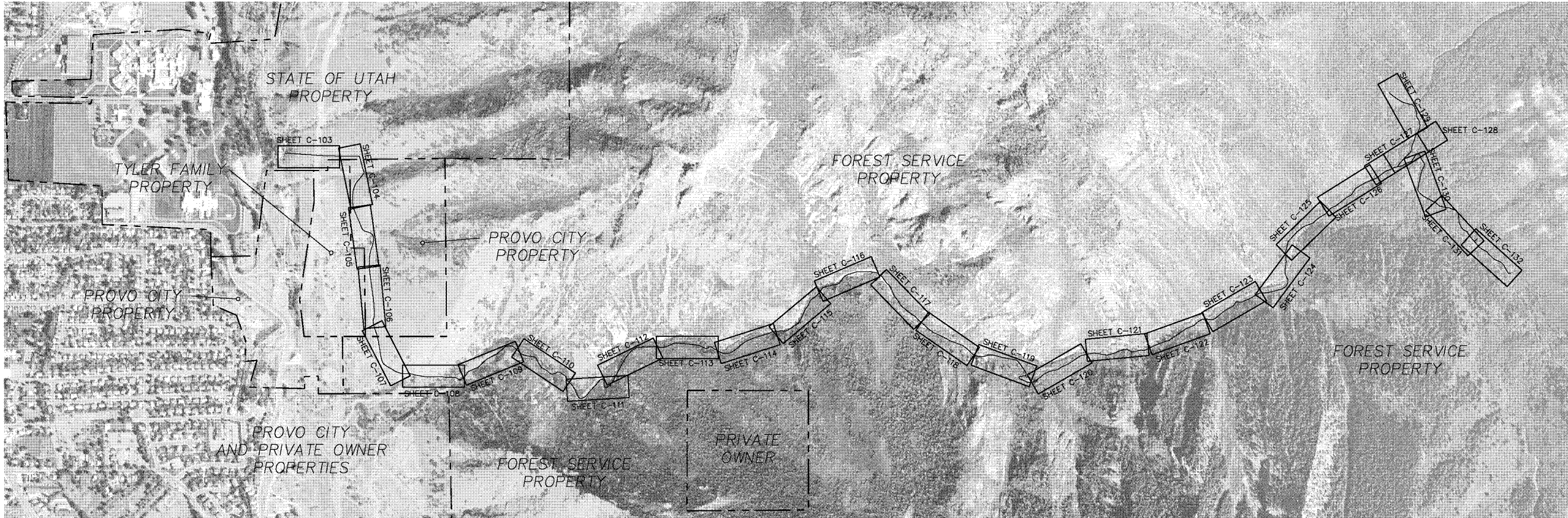
AGG	-	AGGREGATE	OC	-	ON CENTER
ANG	-	ANGLE	PIC	-	PICTURE
BWL	-	EXISTING BURIED WATER LINE	PROP	-	PROPOSED
CLR	-	CLEAR COVER/CLEARANCE	PT	-	POINT
DIA	-	DIAMETER	SQ	-	SQUARE
DP	-	DATA POINT	STA	-	STATION
E	-	EASTING	TCE	-	TEMPORARY CONSTRUCTION EASEMENT
EWL	-	EXISTING EXPOSED WATER LINE	TYP	-	TYPICAL
EXIST	-	EXISTING	VERT	-	VERTICAL
FG	-	FINISH GRADE			
FT	-	FEET			
HDPE	-	HIGH DENSITY POLYETHYLENE			
HCL	-	HYDRAULIC GRADE LINE			
HORIZ	-	HORIZONTAL			
MAX	-	MAXIMUM			
MIN	-	MINIMUM			
N	-	NORTHING			
NTS	-	NOT TO SCALE			

SYMBOLS

	4 INDICATES DETAIL NUMBER 10 INDICATES SHEET NUMBER ON WHICH DETAIL APPEARS
	A INDICATES SECTION 10 INDICATES SHEET NUMBER ON WHICH SECTION APPEARS
	WATER SURFACE
	NUMBER INDICATES PICTURE NUMBER BOX REPRESENTS LOCATION PICTURE WAS TAKEN ARROWS REPRESENT DIRECTION
	AND AT CONTROL LINE OR CENTER LINE
	FLOW LINE
	PERCENT
	NUMBER

INDEX OF DRAWINGS

SHT NO.	DESCRIPTION
GENERAL SHEETS	
C-100	TITLE SHEET
C-101	DRAWING INDEX/LEGEND
C-102	DRAWING KEY
PLAN AND PROFILE SHEETS	
C-103	CANYON PLAN AND PROFILE STA: 10+00 - 16+50
C-104	CANYON PLAN AND PROFILE STA: 16+50 - 24+00
C-105	CANYON PLAN AND PROFILE STA: 24+00 - 31+00
C-106	CANYON PLAN AND PROFILE STA: 31+00 - 38+00
C-107	CANYON PLAN AND PROFILE STA: 38+00 - 45+50
C-108	CANYON PLAN AND PROFILE STA: 45+50 - 53+00
C-109	CANYON PLAN AND PROFILE STA: 53+00 - 60+00
C-110	CANYON PLAN AND PROFILE STA: 60+00 - 67+00
C-111	CANYON PLAN AND PROFILE STA: 67+00 - 75+00
C-112	CANYON PLAN AND PROFILE STA: 75+00 - 82+50
C-113	CANYON PLAN AND PROFILE STA: 82+50 - 90+00
C-114	CANYON PLAN AND PROFILE STA: 90+00 - 97+50
C-115	CANYON PLAN AND PROFILE STA: 97+50 - 105+00
C-116	CANYON PLAN AND PROFILE STA: 105+00 - 113+00
C-117	CANYON PLAN AND PROFILE STA: 113+00 - 120+50
C-118	CANYON PLAN AND PROFILE STA: 120+50 - 128+00
C-119	CANYON PLAN AND PROFILE STA: 128+00 - 135+50
C-120	CANYON PLAN AND PROFILE STA: 135+50 - 143+00
C-121	CANYON PLAN AND PROFILE STA: 143+00 - 150+50
C-122	CANYON PLAN AND PROFILE STA: 150+50 - 158+00
C-123	CANYON PLAN AND PROFILE STA: 158+00 - 165+50
C-124	CANYON PLAN AND PROFILE STA: 165+50 - 173+00
C-125	CANYON PLAN AND PROFILE STA: 173+00 - 180+50
C-126	CANYON PLAN AND PROFILE STA: 180+50 - 187+00
C-127	CANYON PLAN AND PROFILE STA: 187+00 - 188+95
C-128	BOARDMAN SPRINGS 2&2A PLAN AND PROFILE STA: 10+00 - 14+50
C-129	BOARDMAN SPRINGS 2&2A PLAN AND PROFILE STA: 14+50 - 21+05.6
C-130	BOARDMAN SPRINGS 1&3 PLAN AND PROFILE STA: 10+00 - 17+00
C-131	BOARDMAN SPRINGS 1&3 PLAN AND PROFILE STA: 17+00 - 25+00
C-132	BOARDMAN SPRINGS 1&3 PLAN AND PROFILE STA: 25+00 - 32+23
DETAILS	
C-201	CONNECTION DETAILS
C-202	GENERAL DETAILS
C-203	GENERAL DETAILS
C-204	GENERAL DETAILS
C-205	RESTORATION DETAILS
DEMOLITION	
C-301	STATION 10+00 - 98+00
C-302	STATION 98+00 - 164+00
C-303	STATION 164+00 - END
STAGING	
C-401	STATION 10+00 - 97+50
C-402	STATION 97+50 - PROJECT END



INDEX MAP  
SCALE: 1"=600'

- GENERAL NOTES**
1. ALL WORK SHALL CONFORM TO APWA DESIGN STANDARDS AND CONSTRUCTION SPECIFICATIONS.
  2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS. CONDUCT WORK IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
  3. CONTRACTOR SHALL CONTACT "BLUE STAKES" 72 HOURS PRIOR TO STARTING CONSTRUCTION AND NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS NOT SHOWN ON THE DRAWINGS.
  4. CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL DURING ALL CONSTRUCTION.
  5. CONTRACTOR SHALL PROVIDE DUST CONTROL DURING ALL CONSTRUCTION IN ACCORDANCE WITH APWA AND STATE OF UTAH REQUIREMENTS.
  6. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THE PROJECT BOUNDARIES AND DESIGNATED LIMITS OF DISTURBANCE UNLESS OTHERWISE PERMITTED BY THE OWNER.
  7. CONTRACTOR SHALL COORDINATE WORK ACTIVITIES WITH PROJECT SCHEDULE AND OTHER CONTRACTORS WORK ON-SITE.
  8. THE PREPARER ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS. THE UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
  9. CONTRACTOR SHALL POTHOLE AND VERIFY EXISTING GAS LINE DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTION.
  10. CONTRACTOR SHALL COORDINATE BACKFILLING AND COMPACTION WORK WITH SOILS TESTING FIRM AND COMPLY WITH REQUIREMENTS CONTAINED IN THE SPECIFICATIONS. ALL EXCAVATION SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED.
  11. ALL DELETERIOUS MATERIAL, SUCH AS LUMBER, LOGS, BRUSH, OR ANY OTHER ORGANIC MATERIALS OR RUBBISH, SHALL BE DISPOSED OF AT THE CONTRACTORS EXPENSE AND NOT PLACED IN ANY TRENCH.
  12. CONTRACTOR SHALL ATTEND ALL NEW-CONSTRUCTION AND SITE COORDINATION MEETINGS.
  13. NATURAL GROUND MAY HAVE BEEN MODIFIED SINCE THESE PLANS WERE PREPARED. CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS AND GRADES.
  14. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER BEFORE PROCEEDING WITH THE WORK IN QUESTION.
  15. CONTRACTOR SHALL RECORD AND PROVIDE A RECORD DRAWING OF WATER IMPROVEMENT LOCATIONS, INCLUDING ANY CHANGES AND UTILITY CROSSINGS, TO THE OWNER.
  16. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING AND STAKING AS NECESSARY.
  17. IGES GEOTECHNICAL/GEOLOGICAL ASSESSMENT (NOVEMBER 30, 2005) REPORT WAS USED IN DESIGN OF SLATE CANYON PIPELINE.
  18. EXISTING WATER PIPELINE WILL BE OFFLINE WHILE CONSTRUCTION OCCURS. SEE SPECIFICATIONS FOR APPROPRIATE PROCEDURES ON DIVERTING WATER FROM SPRINGS.
  19. WRITTEN EASEMENT FOR THE BONNEVILLE SHORELINE TRAIL AVAILABLE UPON REQUEST.

- CONSTRUCTION NOTES:**  
**WATER SYSTEM CONSTRUCTION**
1. CONTRACTOR SHALL PROVIDE TEMPORARY WATER TO SITE FOR CONSTRUCTION.
  2. CONTRACTOR SHALL CONSTRUCT WATER SYSTEM IN ACCORDANCE WITH APWA WATER DISTRIBUTION AND TRANSMISSION SYSTEMS SPECIFICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE NOTES BELOW, OR DETAILED AND APPROVED ON THE PLANS.
  3. WATER LINES SHALL BE 6" HDPE DR-9 (PIPE WALL THICKNESS OF  $\frac{3}{4}$ ") EXCEPT FOR AREAS IDENTIFIED IN PLANS. THESE AREAS SHALL BE 6" STEEL PIPE.
  4. CONSTRUCT THRUST BLOCKING FOR WATER LINES IN ACCORDANCE WITH APWA STANDARDS AND IN ACCORDANCE WITH THE PLANS.
  5. PROVIDE 3 FEET COVER ON ALL WATER LINES. MAINTAIN 18-INCHES MINIMUM SEPARATION BETWEEN WATER LINES AND OTHER UTILITIES, INCLUDING STORM DRAINS.
  6. CONTRACTOR SHALL PROVIDE ALL WATER LINE FITTINGS, TEES, REDUCERS, BENDS AND APPURTENANCES REQUIRED, SHOWN OR NOT SHOWN, AS REQUIRED TO COMPLETE ROUTING SHOWN.
  7. CONSTRUCTION TRENCHING, BACKFILLING AND COMPACTION FOR WATER LINES SHALL BE IN ACCORDANCE WITH APWA SPECIFICATIONS.
  8. PROVIDE FLUSHING, DISINFECTING AND HYDROSTATIC TESTING IN ACCORDANCE WITH APWA SPECIFICATIONS.
  9. CONTRACTOR SHALL CONSTRUCT AIR RELEASE VALVES, AIR VENTS AND OVERFLOW STRUCTURE AT POINTS INDICATED IN THE PLANS.
  10. CONTRACTOR SHALL INSTALL BLOW-OFF VALVES AT LOW POINTS IN THE WATER LINE AS INDICATED IN THE PLANS.
  11. ALL PIPE, FITTINGS AND VALVES SHALL HAVE NSF 61 CERTIFICATION.

COORDINATE SYSTEM:  
State Plane  
Utah Central Zone  
NAD 83/NAVD 88  
US Survey Feet

**PSOMAS**

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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420

PROJECT NUMBER: 8DFC010100

DRAWING FILE: U:\8DFC010100\WATRES\DWG\SHEET5\BONDESIGN\SHEET C-102.DWG

DRAWN BY: JWH

CHECKED BY: MDC

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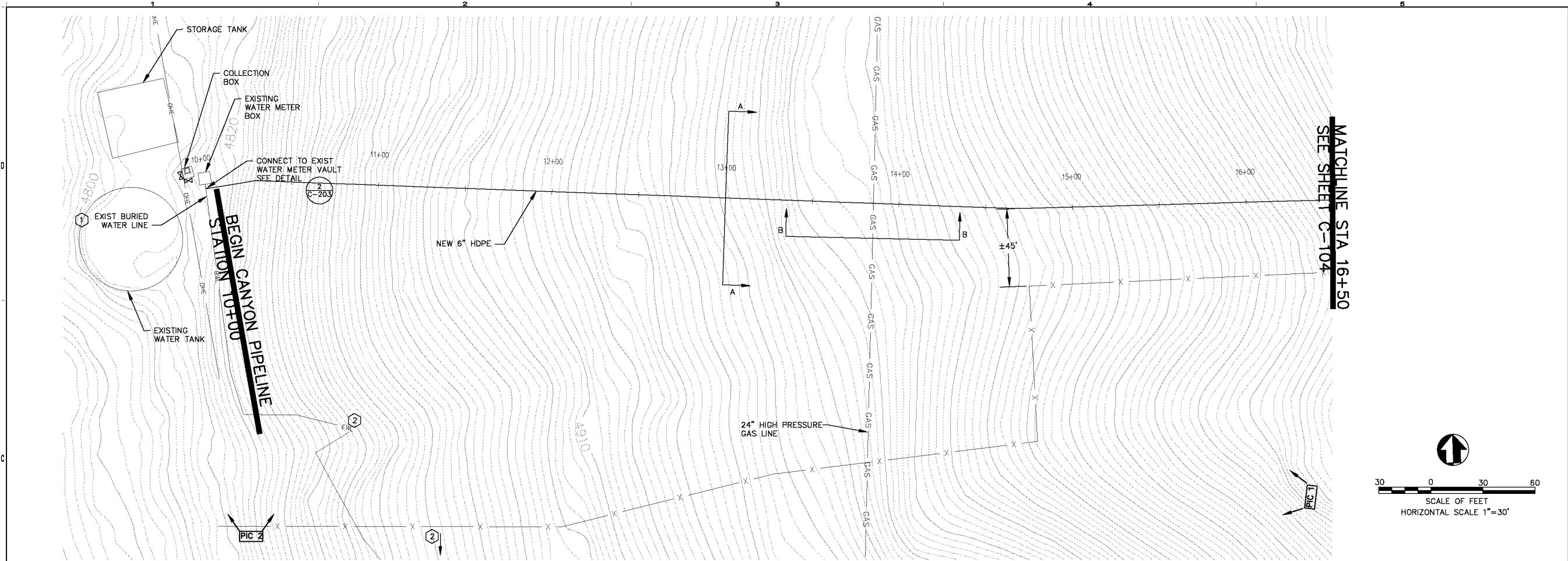
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DRAWING  
KEY

SHEET NUMBER

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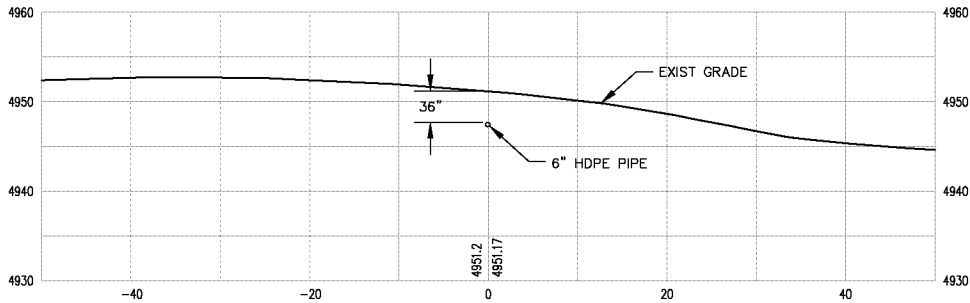
2 OF 42



- 1 CAP AND ABANDON EXISTING 5-1/2" STEEL PIPE. CRIMP ENDS OF PIPE TIGHT.
- 2 REMOVE EXPOSED PIPE SEE SHEET C-301 FOR LENGTH AND EXTENDED VIEW

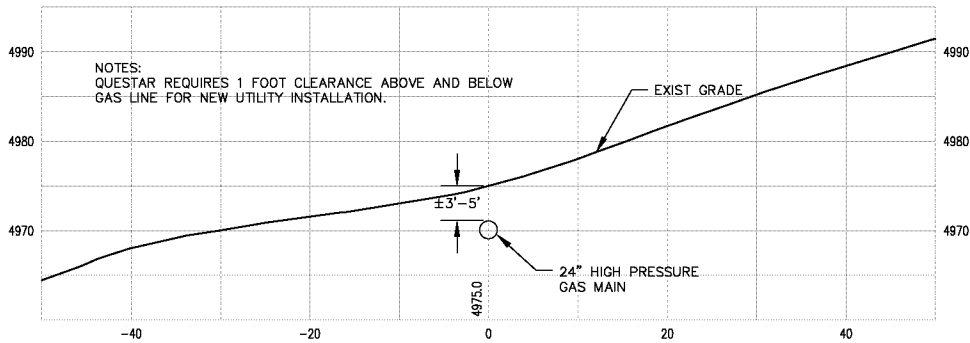
NOTES

1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
2. PIPELINE SHALL BE INSTALLED ALONG STATION ALIGNMENT AS SHOWN IN PLAN VIEW.
3. EXISTING GAS PIPELINE IS APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION.
4. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.



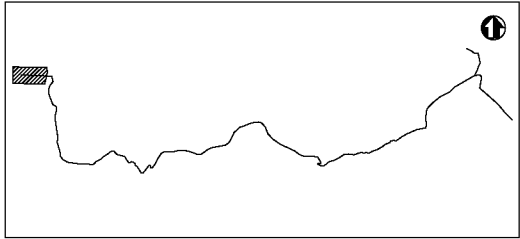
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VERTICAL SCALE 1"=10'

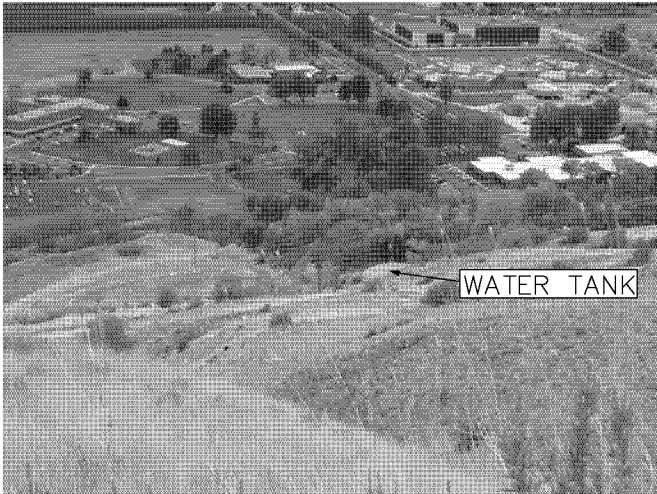


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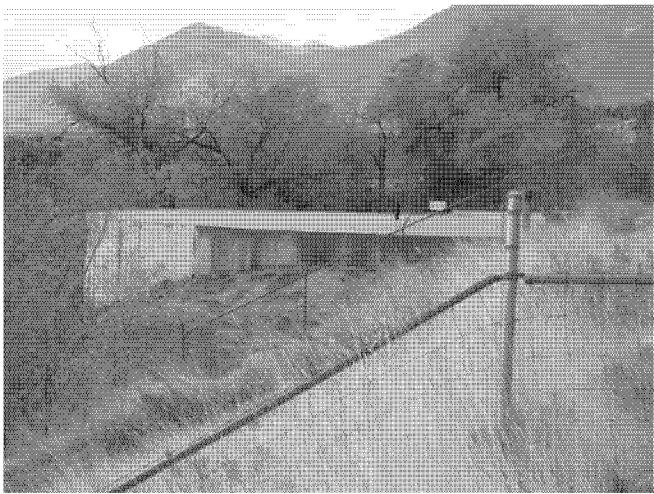
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



DRAWING KEY  
NTS



PIC 1



PIC 2



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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
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SHEET TITLE

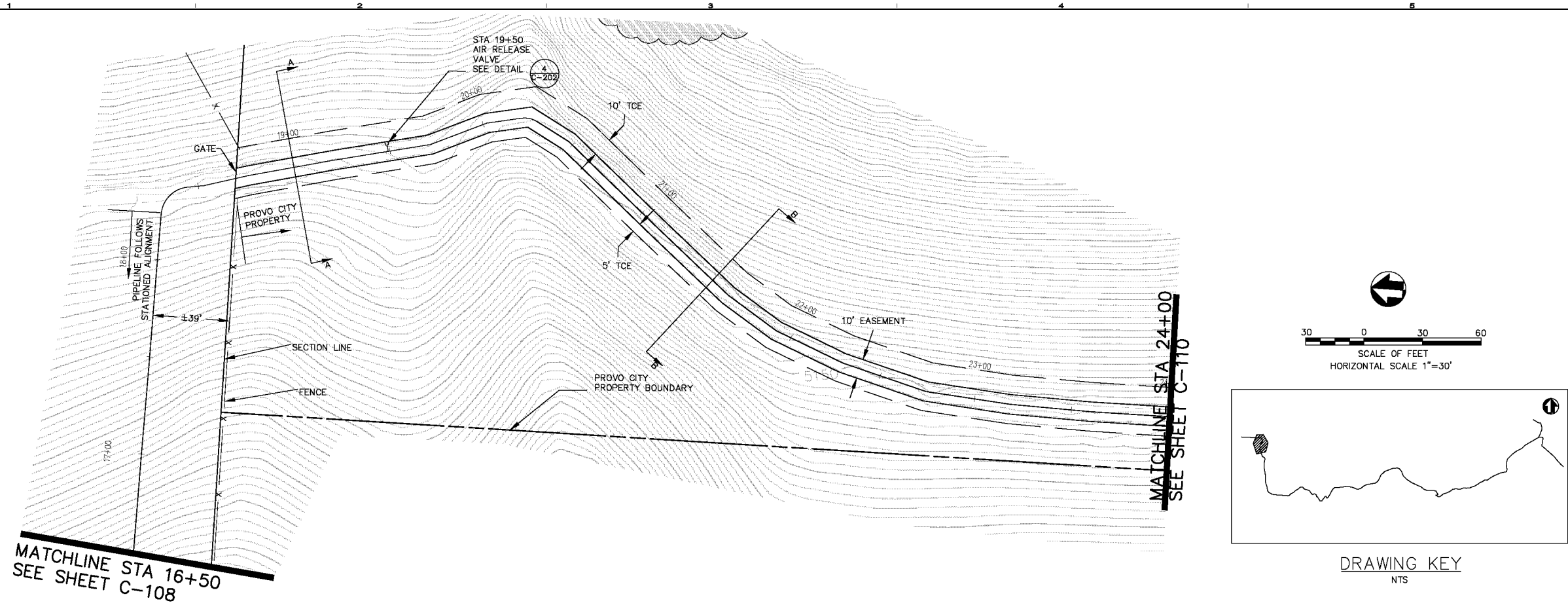
PLAN  
PROFILE

SHEET NUMBER

**C-103**

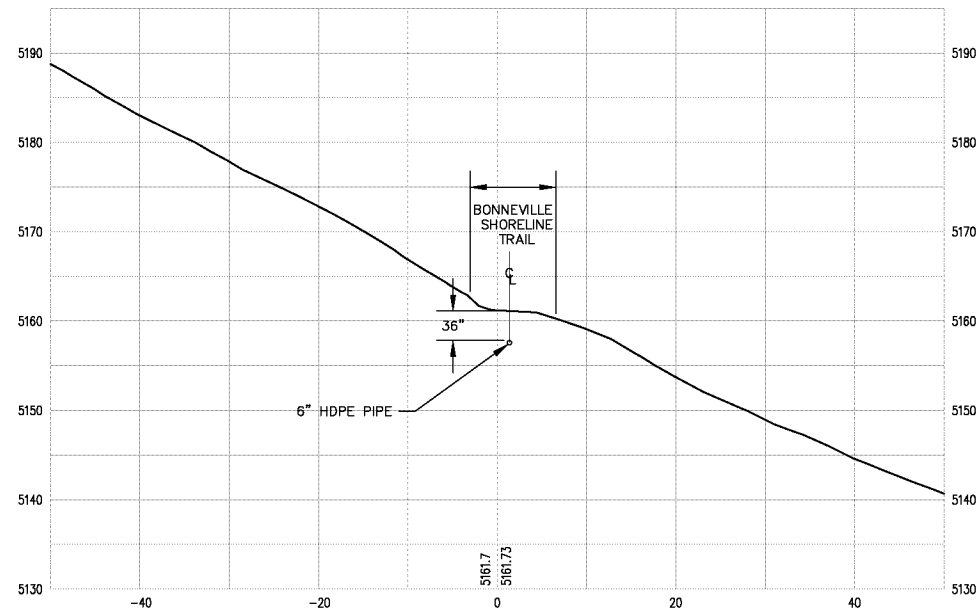
3 OF 42



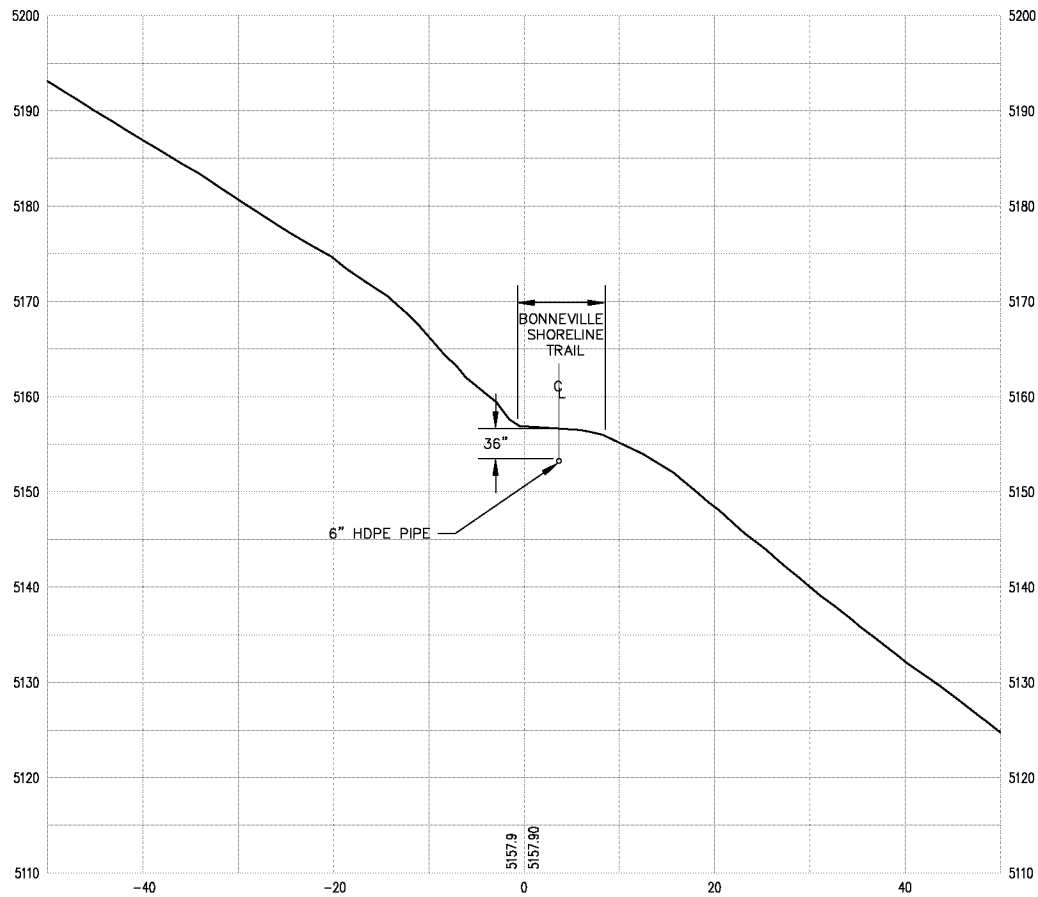


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3. CONSTRUCTION LIMITS SHALL BE 5 FEET FROM EITHER SIDE OF THE STATIONED ALIGNMENT
4. WHEN EXISTING PIPE IS NOT SHOWN IN PLANS, LOCATION IS UNKNOWN.
5. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



CROSS SECTION B-B  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



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DRAWING FILE: U:\8DFC010100\WATERS\DWG\SHEETS\FINAL DESIGN\SHEET C-104.DWG  
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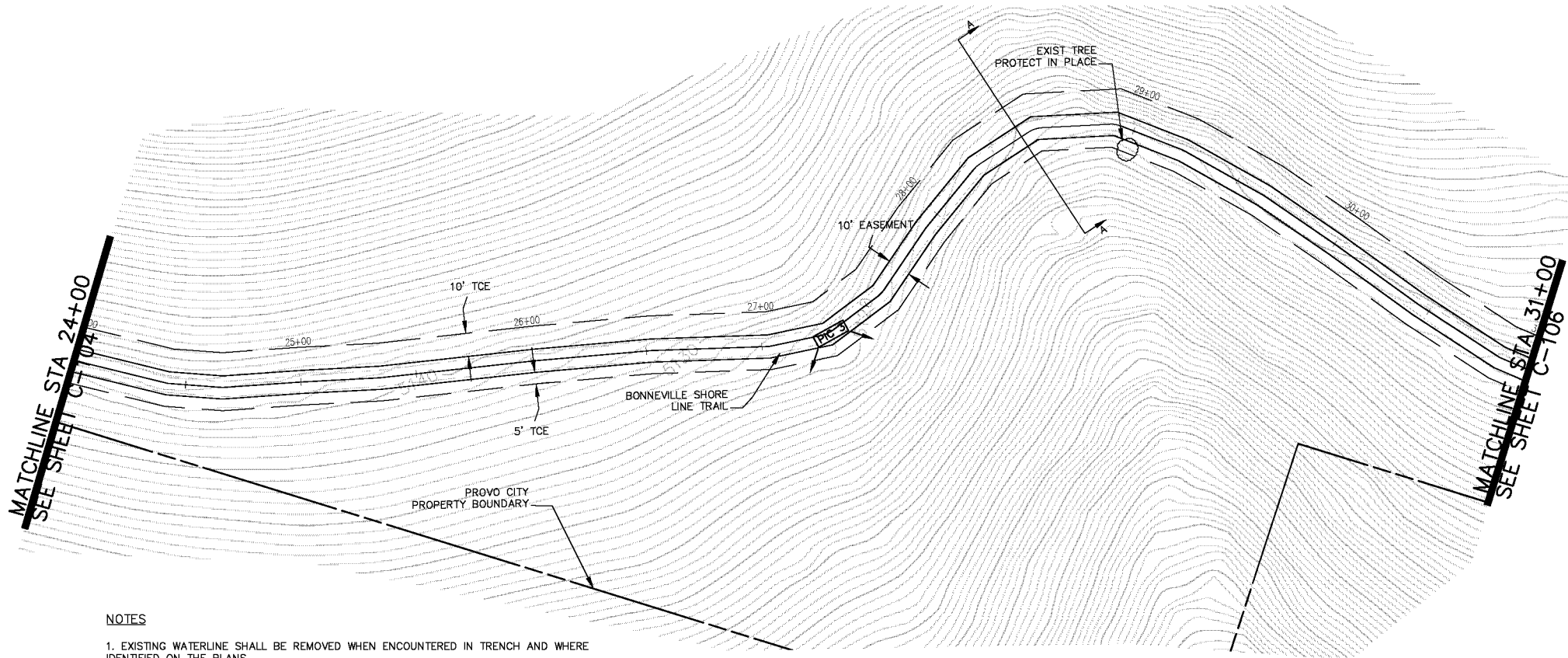
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PROFILE

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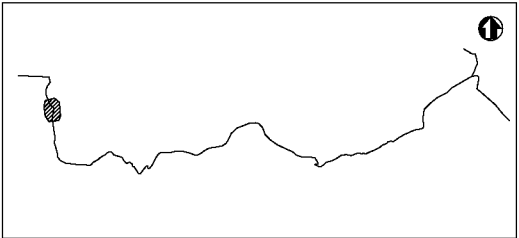
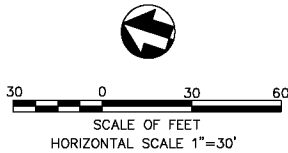
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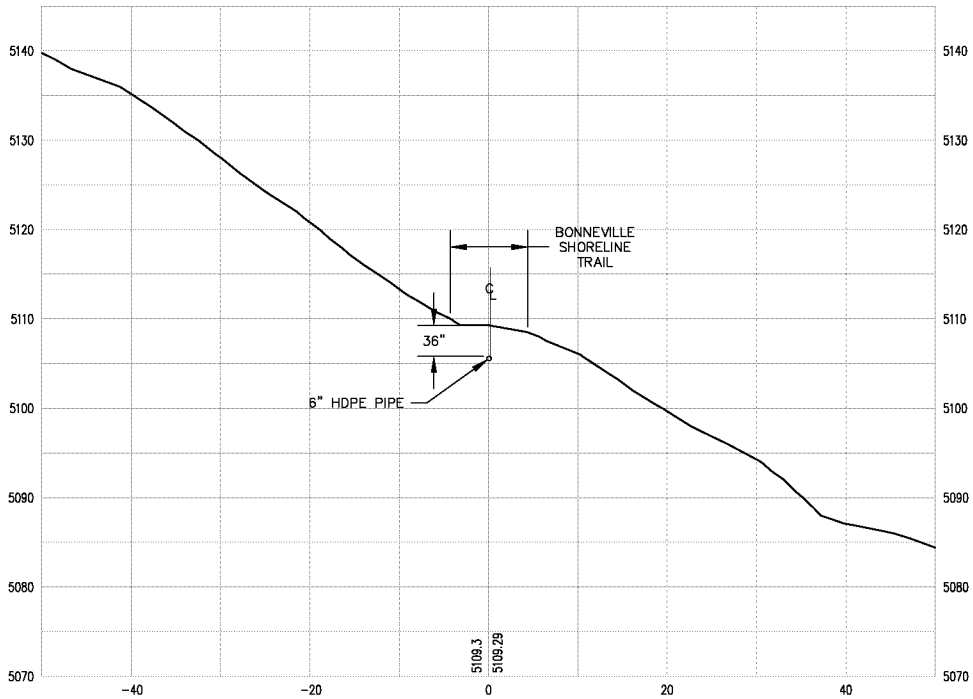


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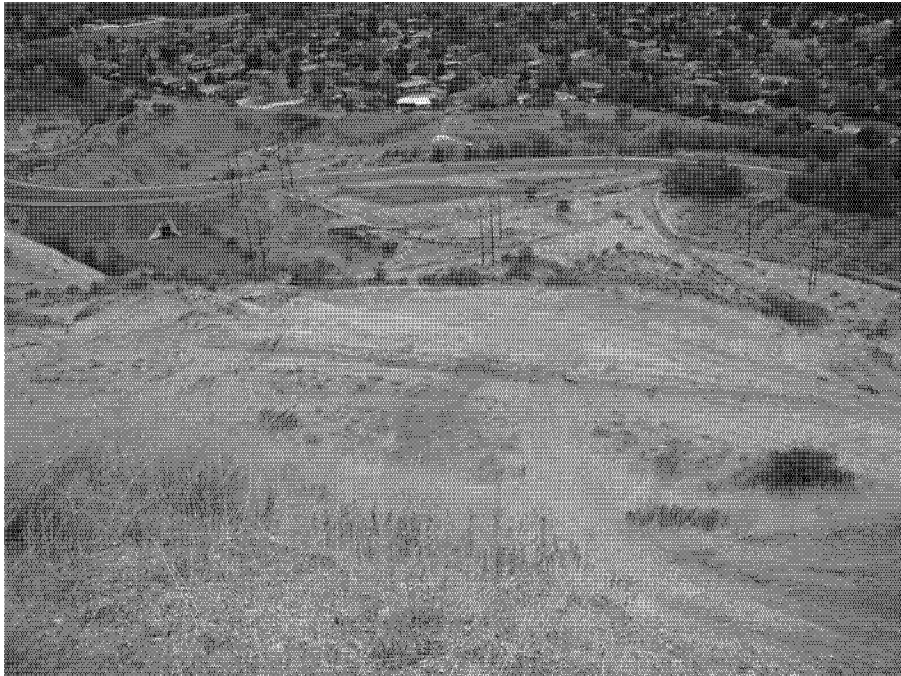
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DRAWING KEY  
NTS



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 3



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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

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REPLACEMENT**

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**STATE HOSPITAL**

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SHEET TITLE

**PLAN  
PROFILE**

SHEET NUMBER

**C-105**

5 OF 42

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SLATE CANYON  
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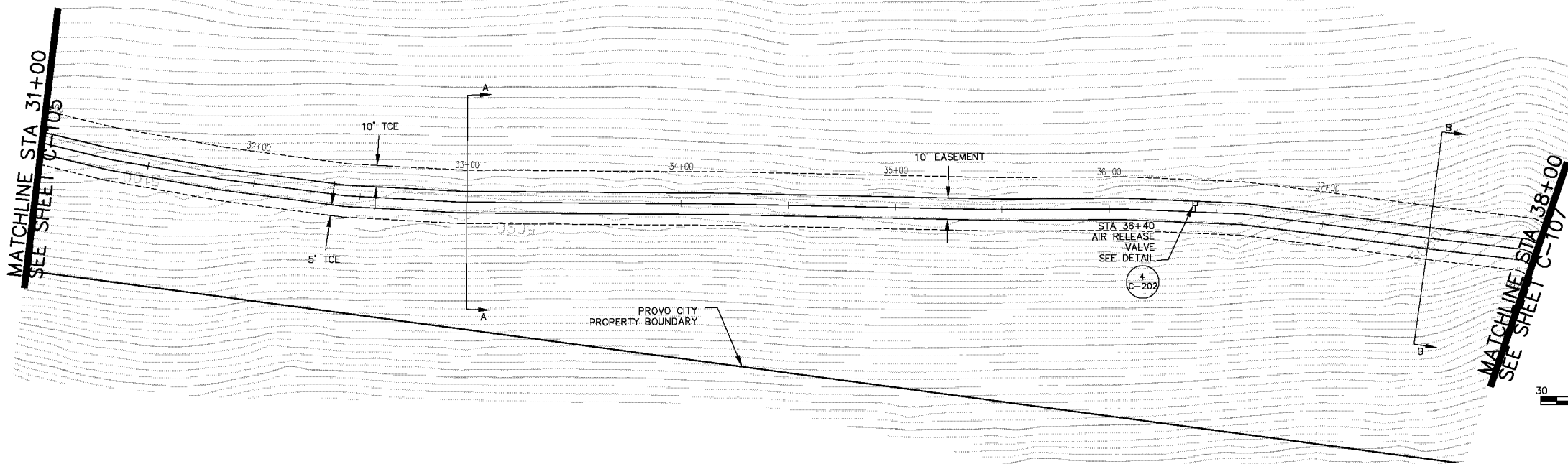
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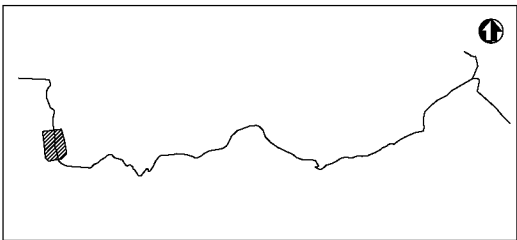
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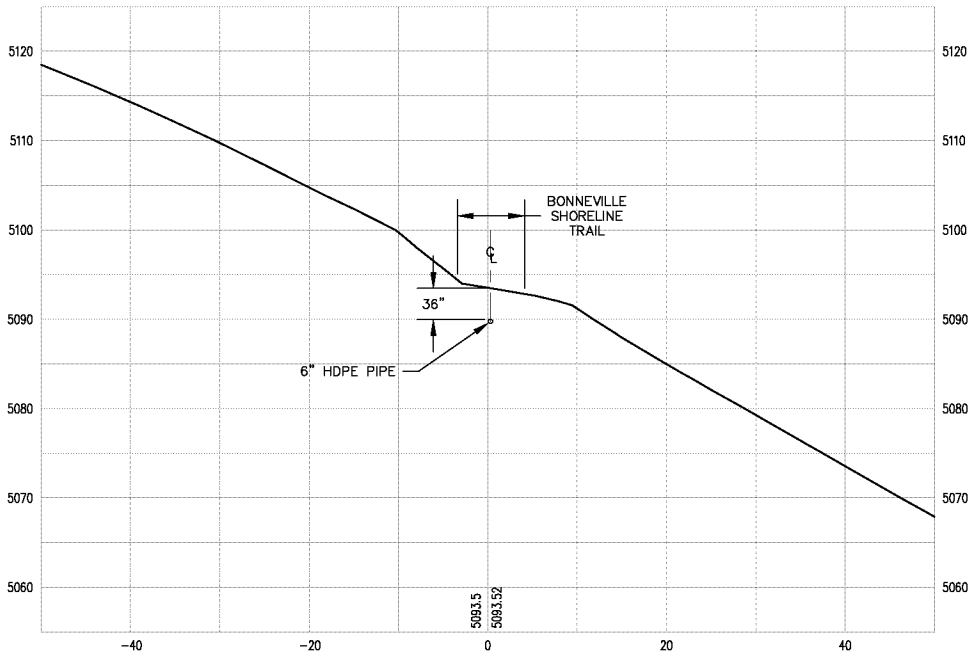
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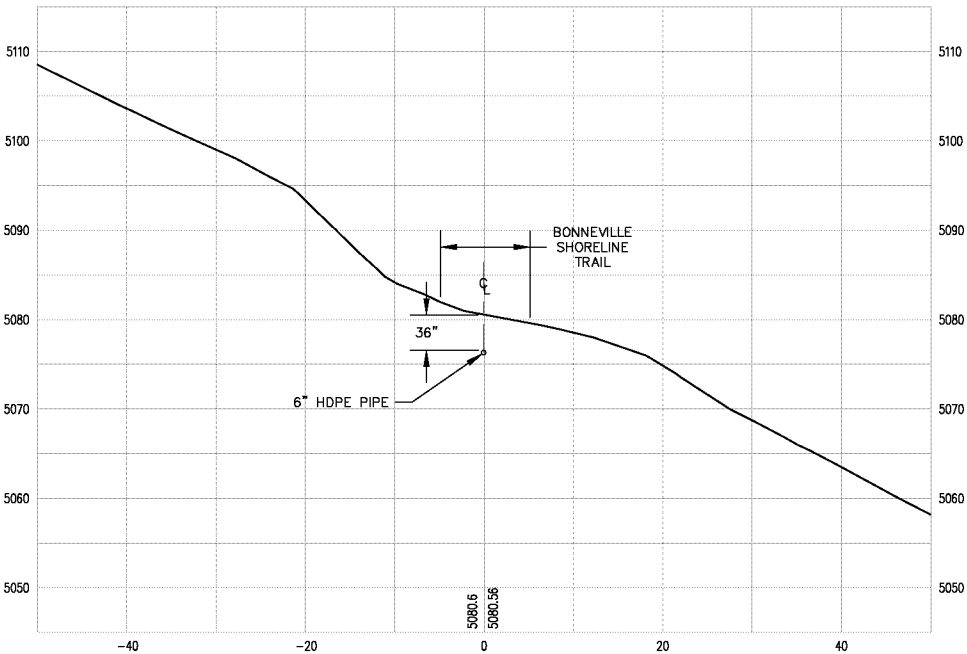
DRAWING KEY

NTS



CROSS SECTION A-A

HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



CROSS SECTION B-B

HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'





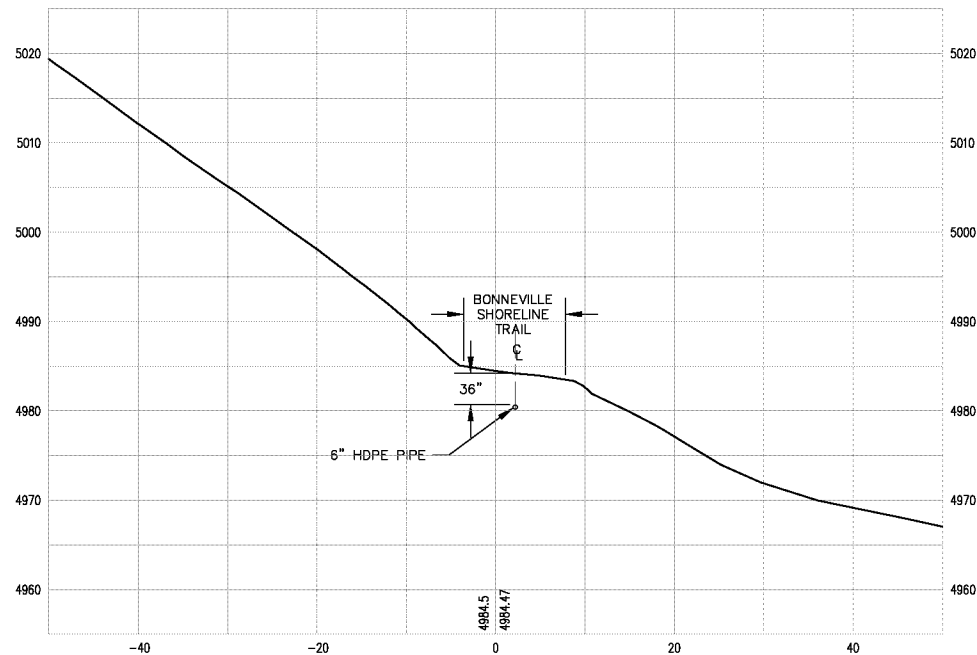




1. INSTALL ±110 FEET 6" HDPE PIPE. DAYLIGHT PIPE AT STREAM BANK. TURN PIPE DOWN AND COVER END WITH STAINLESS STEEL SCREEN.

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CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 5



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DRAWING FILE: U:\80FC010100\WATER\DWG\SHEETS\FINAL DESIGN\SHEET C-108.DWG  
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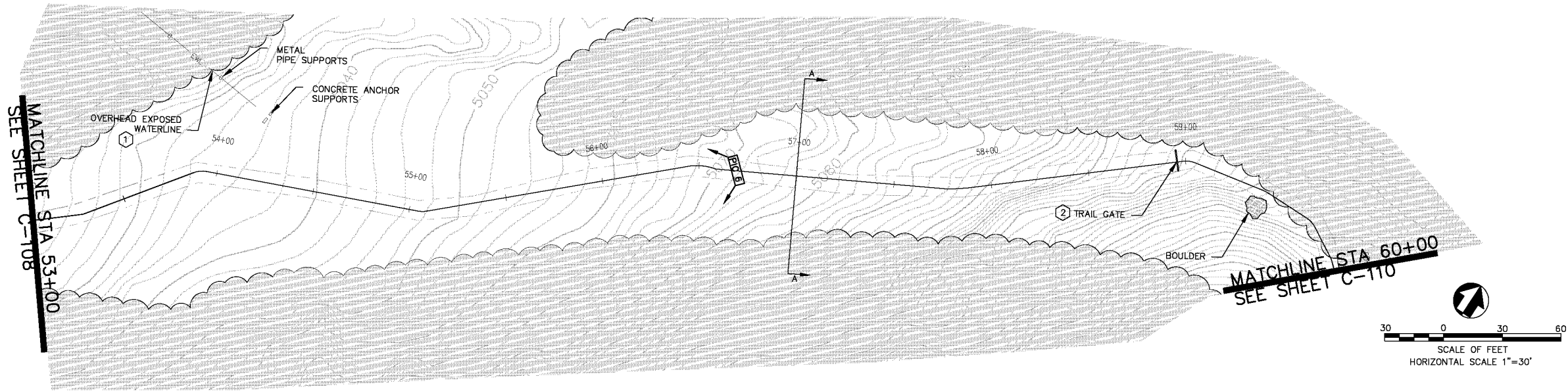
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PLAN  
PROFILE

SHEET NUMBER

**C-108**

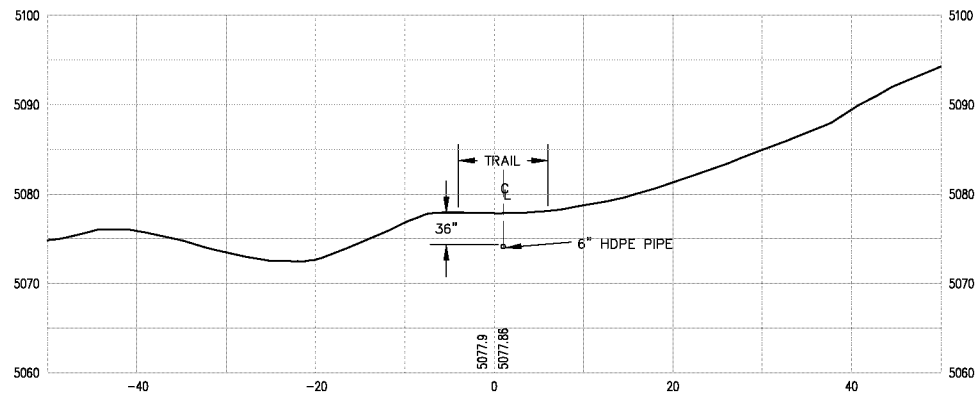
8 OF 42



- 1 REMOVE EXPOSED PIPE AND CONCRETE ANCHORS  
SEE SHEET C-301 FOR EXTENDED VIEW
- 2 CONTRACTOR SHALL KEEP GATE CLOSED DURING CONSTRUCTION

NOTES

1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
2. NEW PIPELINE SHALL BE PLACED WITHIN EASEMENT/CONSTRUCTION LIMITS. EXACT LOCATION WITHIN THE EASEMENT/CONSTRUCTION LIMITS CAN VARY TO OPTIMIZE INSTALLATION PROCEDURES.
3. CONSTRUCTION LIMITS SHALL BE 5 FEET FROM EITHER SIDE OF THE STATIONED ALIGNMENT
4. WHEN EXISTING PIPE IS NOT SHOWN IN PLANS, LOCATION IS UNKNOWN.
5. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.



PIC 6



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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
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DRAWN BY: JWH  
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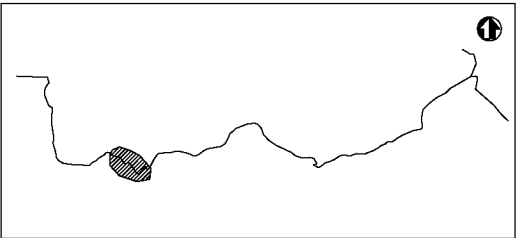
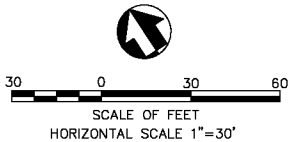
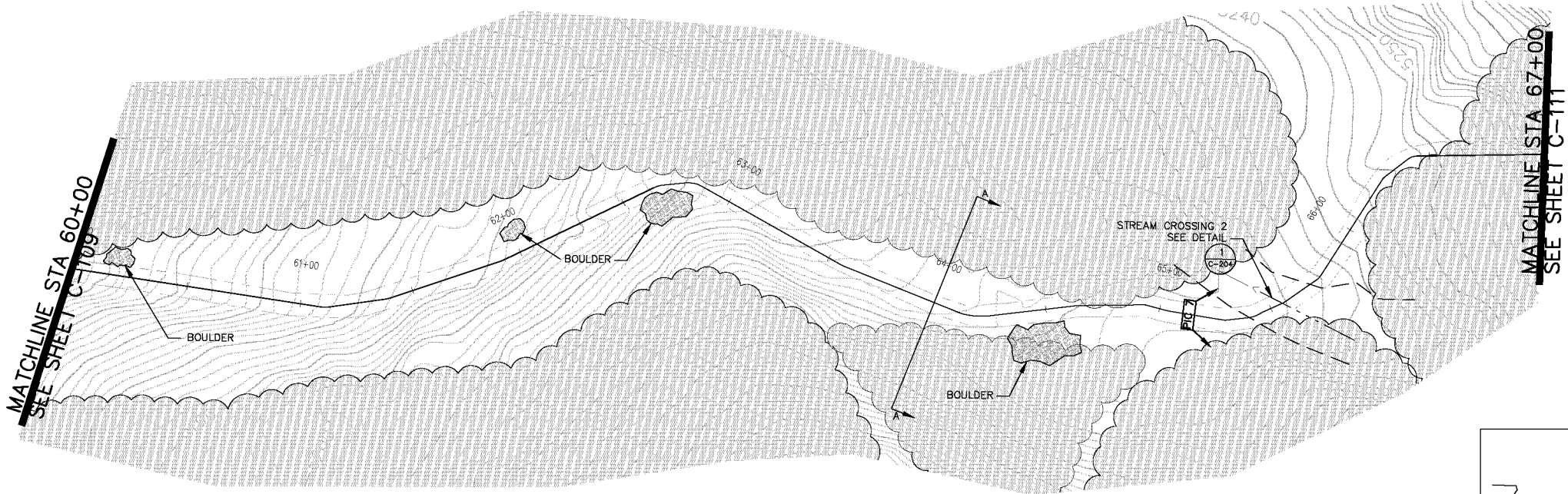
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**PLAN  
PROFILE**

SHEET NUMBER

**C-109**

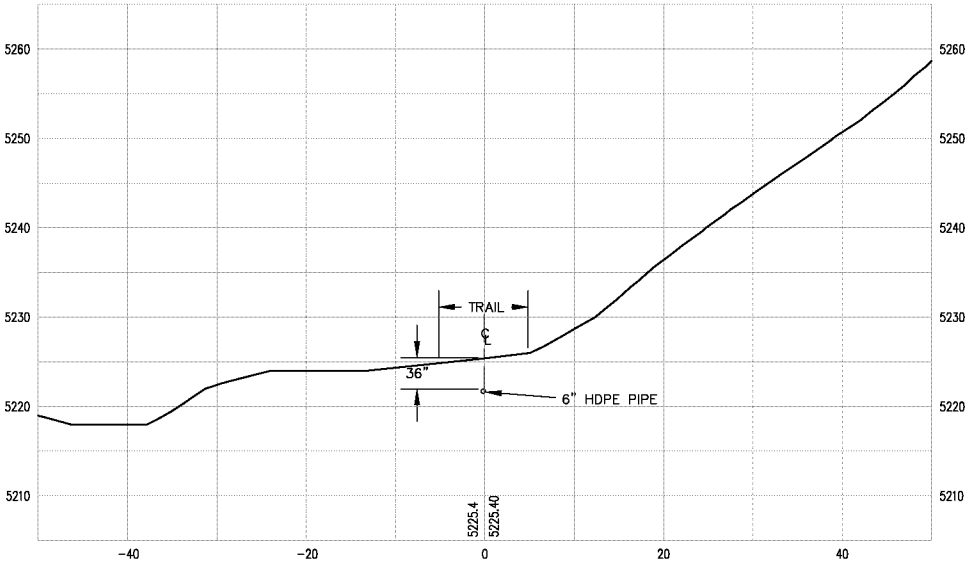
9 OF 42



DRAWING KEY  
NTS

NOTES

1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
2. NEW PIPELINE SHALL BE PLACED WITHIN EASEMENT/CONSTRUCTION LIMITS. EXACT LOCATION WITHIN THE EASEMENT/CONSTRUCTION LIMITS CAN VARY TO OPTIMIZE INSTALLATION PROCEDURES.
3. CONSTRUCTION LIMITS SHALL BE 5 FEET FROM EITHER SIDE OF THE STATIONED ALIGNMENT
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5. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 7



**PSOMAS**

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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
DRAWING FILE: G:\2007\010100\WATRES\DWG\SHEETS\FINAL DESIGN\SHEET C-110.DWG  
DRAWN BY: JWH  
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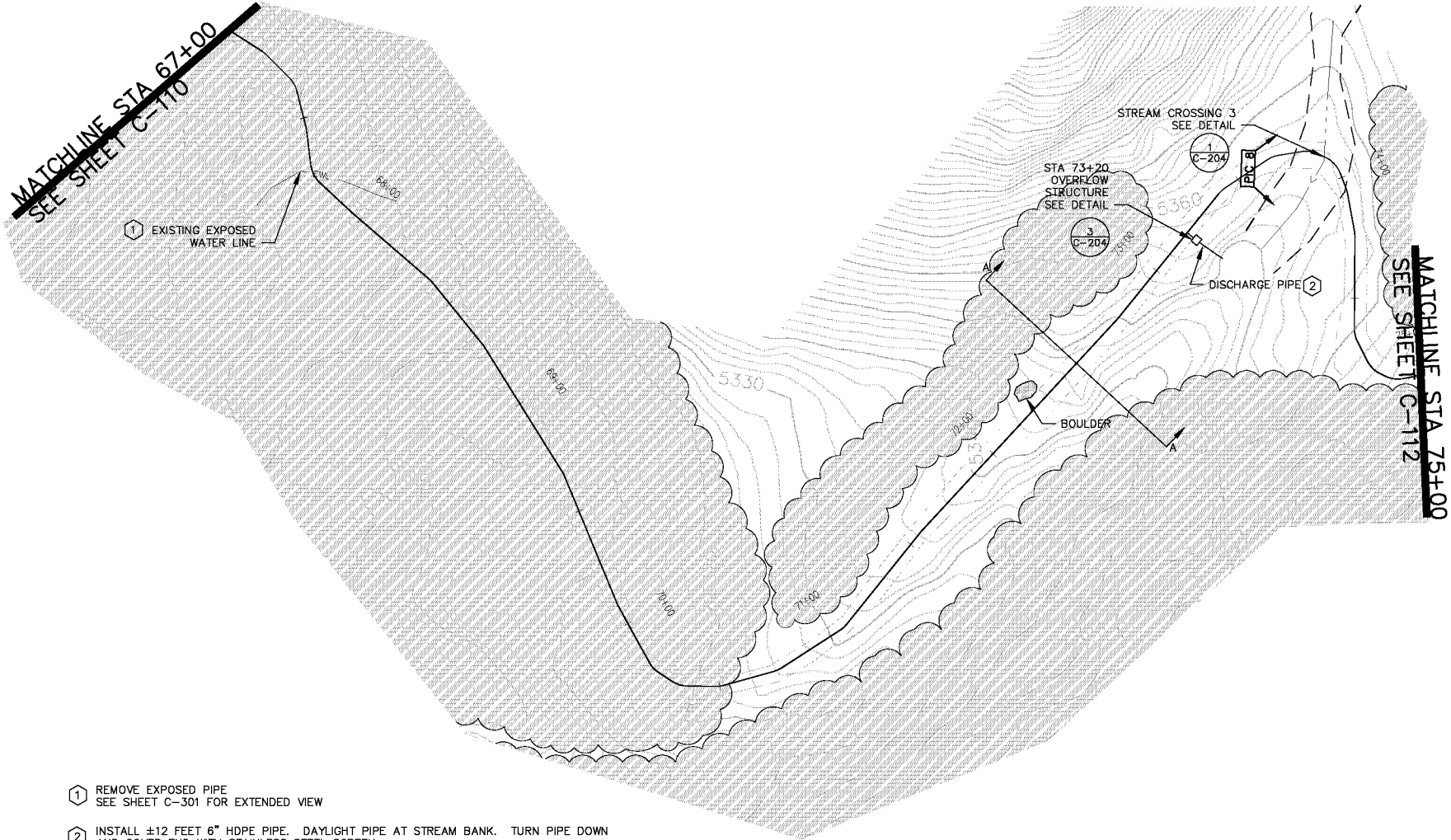
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**PLAN  
PROFILE**

SHEET NUMBER

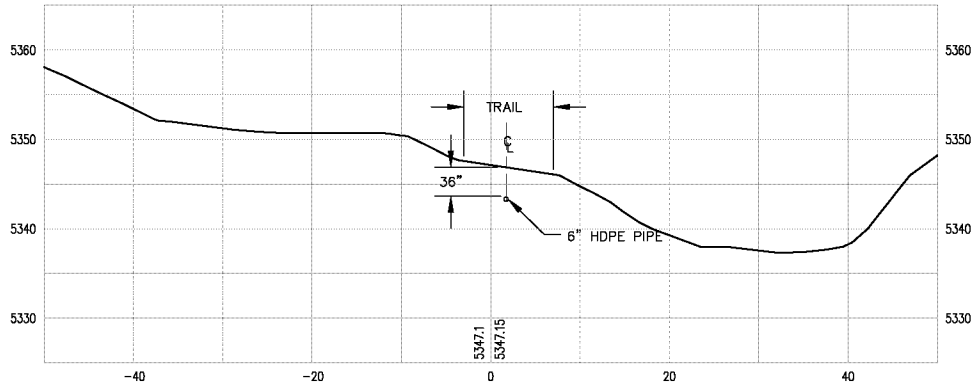
**C-110**

10 OF 42



- 1 REMOVE EXPOSED PIPE  
SEE SHEET C-301 FOR EXTENDED VIEW
- 2 INSTALL ±12 FEET 6" HDPE PIPE. DAYLIGHT PIPE AT STREAM BANK. TURN PIPE DOWN  
AND COVER END WITH STAINLESS STEEL SCREEN.

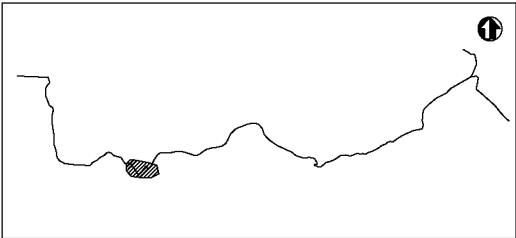
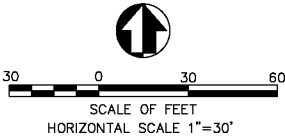
- NOTES**
1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
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4. WHEN EXISTING PIPE IS NOT SHOWN IN PLANS, LOCATION IS UNKNOWN.
5. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 8



DRAWING KEY  
NTS

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CREATED BY: PSOMAS



PROJECT NAME

SLATE CANYON  
PROVO, UTAH

PROJECT TITLE

WATER  
PIPELINE  
REPLACEMENT

OWNER

STATE HOSPITAL

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420

PROJECT NUMBER: 8DFC010100

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DRAWN BY: JWH

CHECKED BY: MDC

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SHEET TITLE

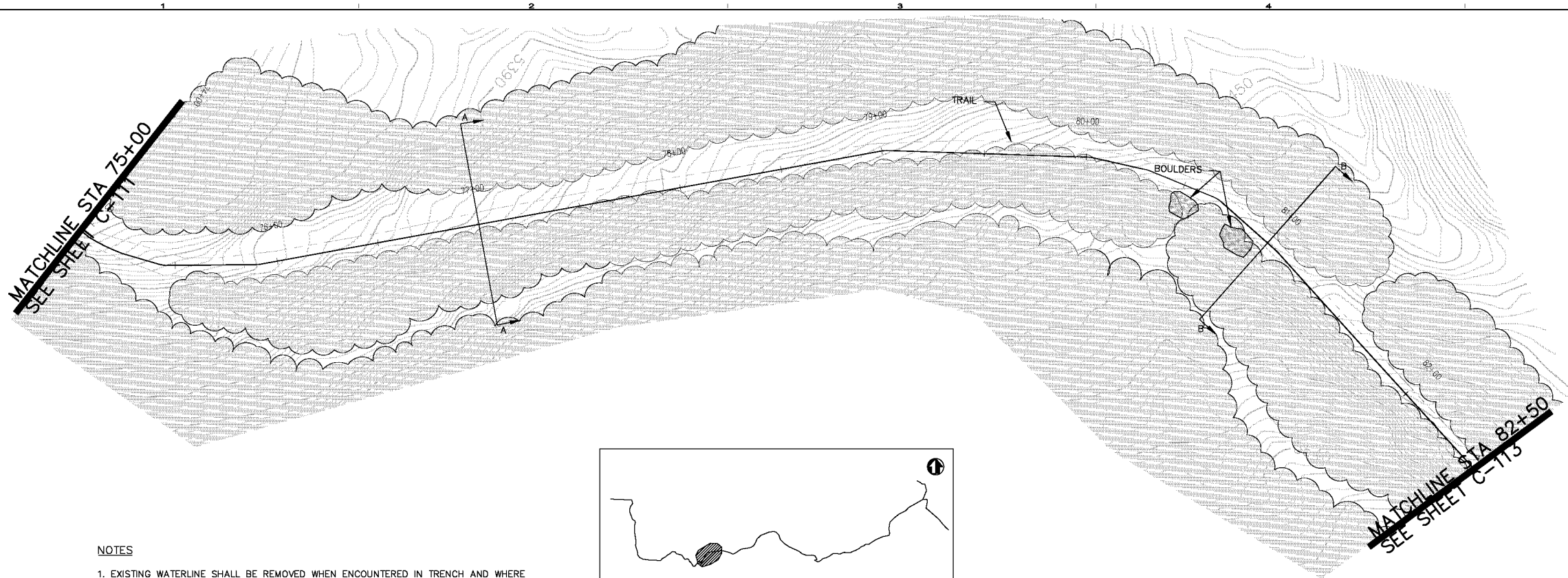
PLAN  
PROFILE

SHEET NUMBER

C-111

11 OF 42

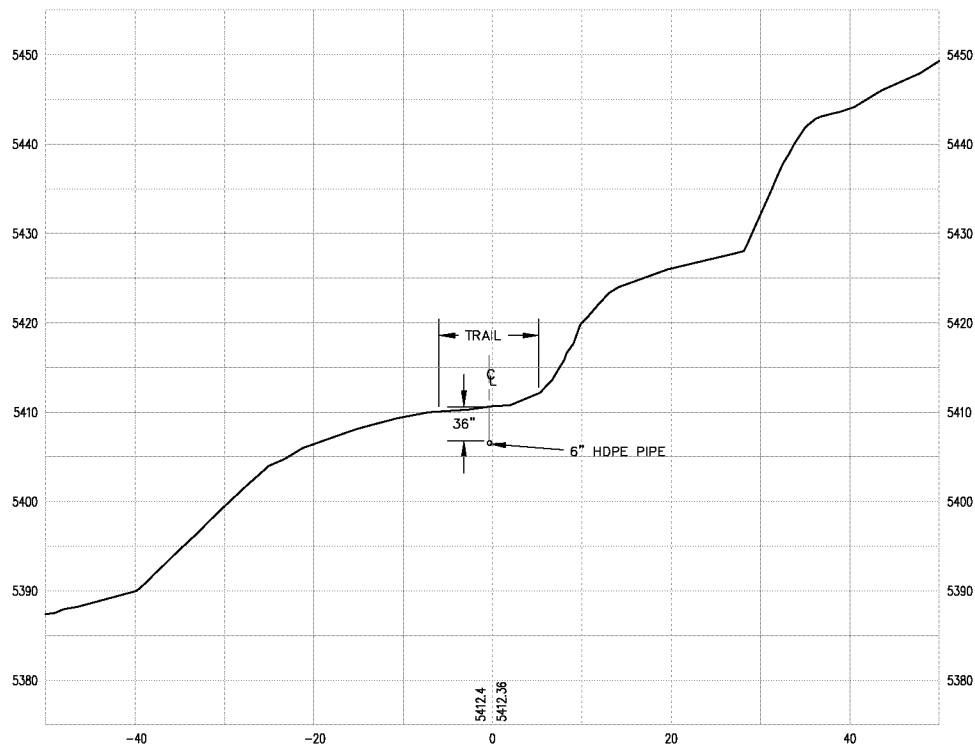




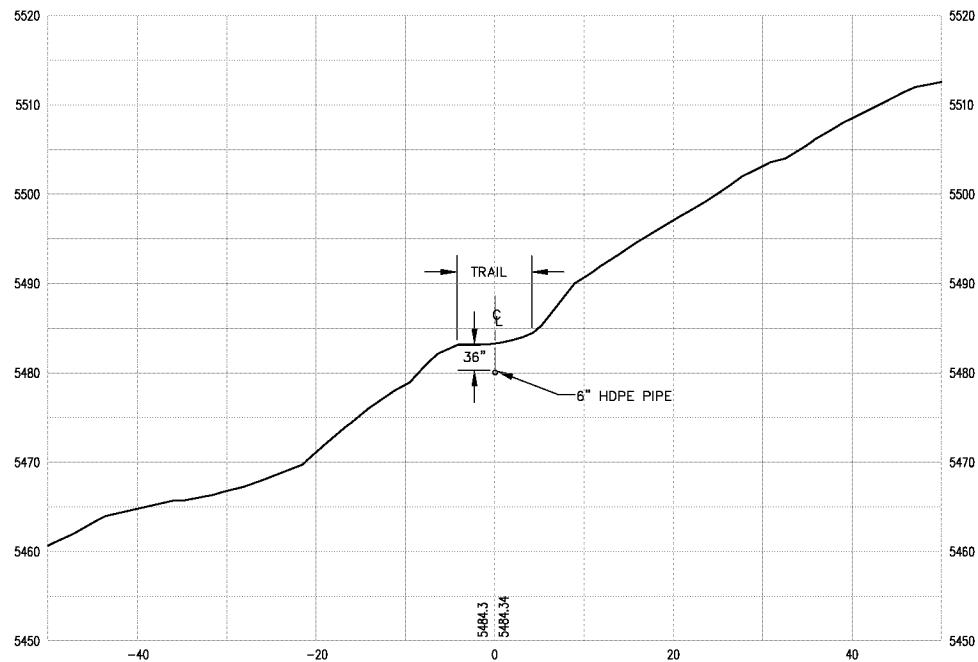
NOTES

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4. WHEN EXISTING PIPE IS NOT SHOWN IN PLANS, LOCATION IS UNKNOWN.
5. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.

DRAWING KEY  
NTS



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



CROSS SECTION B-B  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
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DRAWN BY: JWH  
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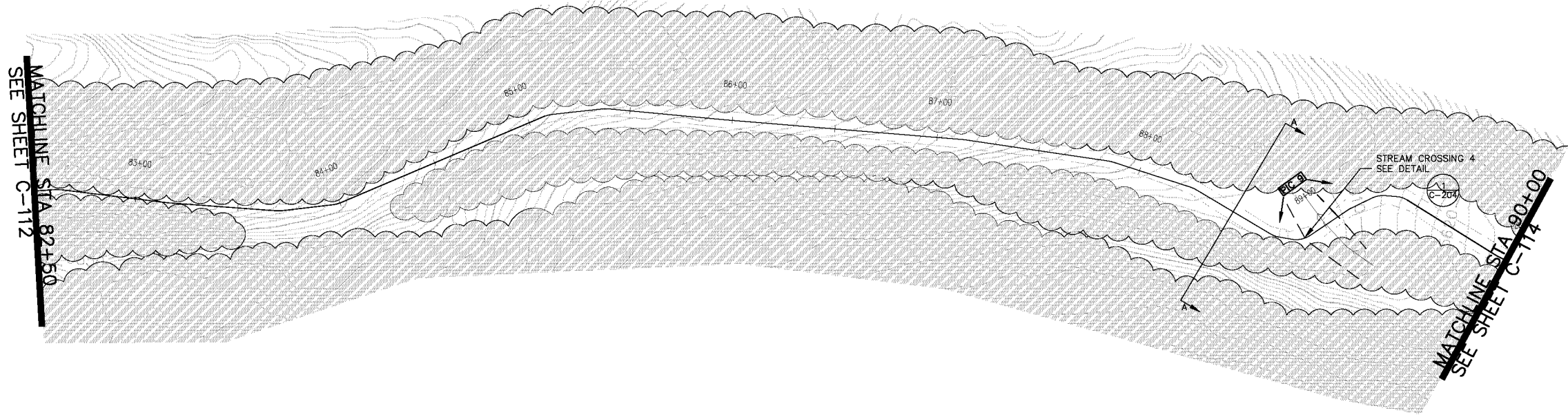
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**PLAN  
PROFILE**

SHEET NUMBER

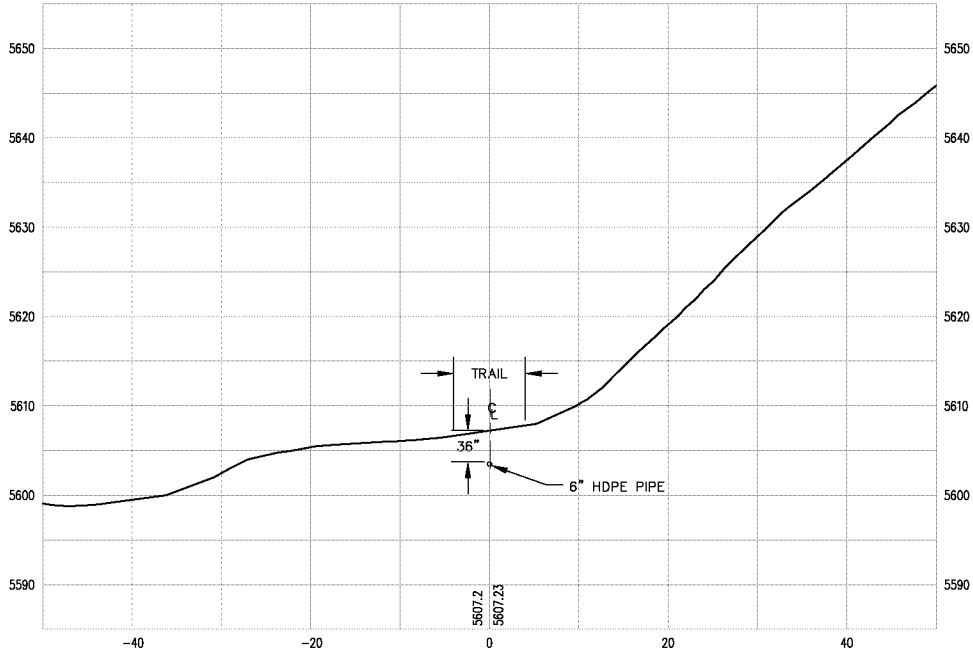
**C-112**

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NOTES

1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
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CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 9



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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
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SHEET TITLE

**PLAN  
PROFILE**

SHEET NUMBER

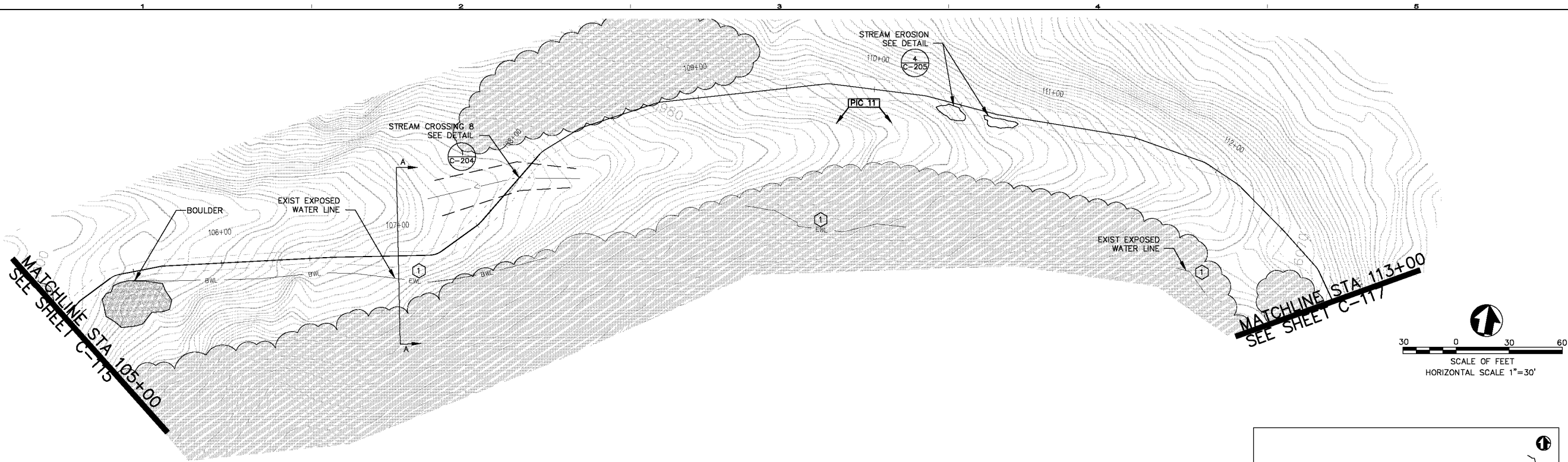
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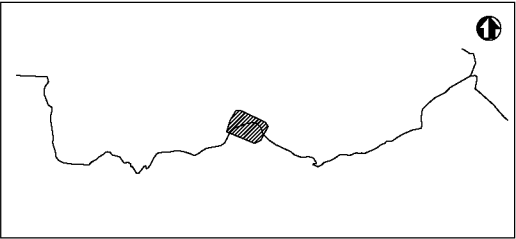




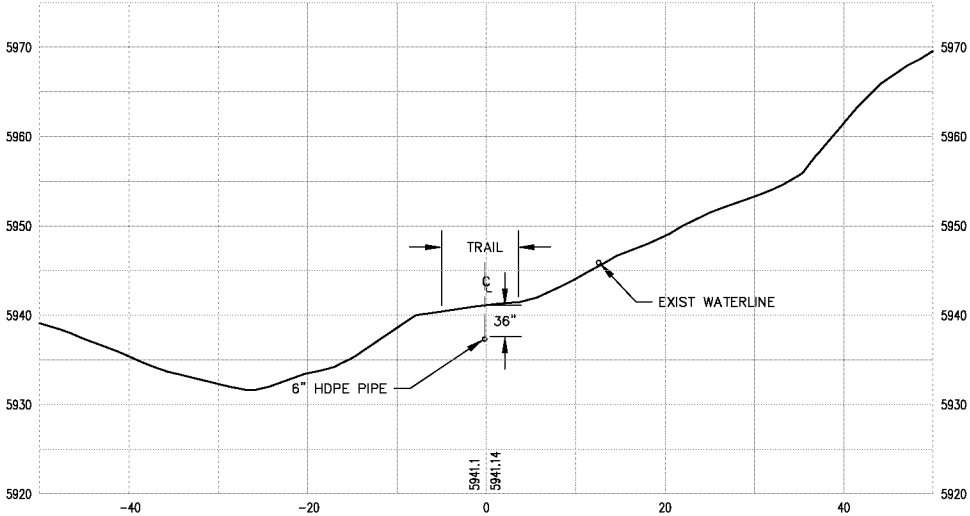
1 REMOVE EXPOSED PIPE  
SEE SHEET C-302 FOR LENGTH AND EXTENDED VIEW

NOTES

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DRAWING KEY  
NTS



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 11



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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
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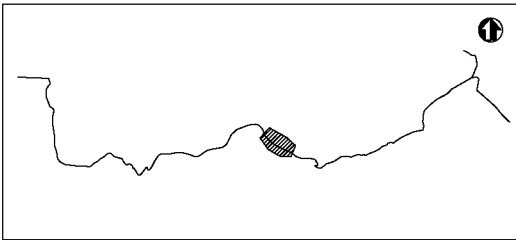
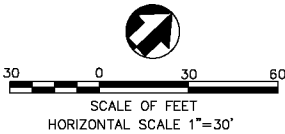
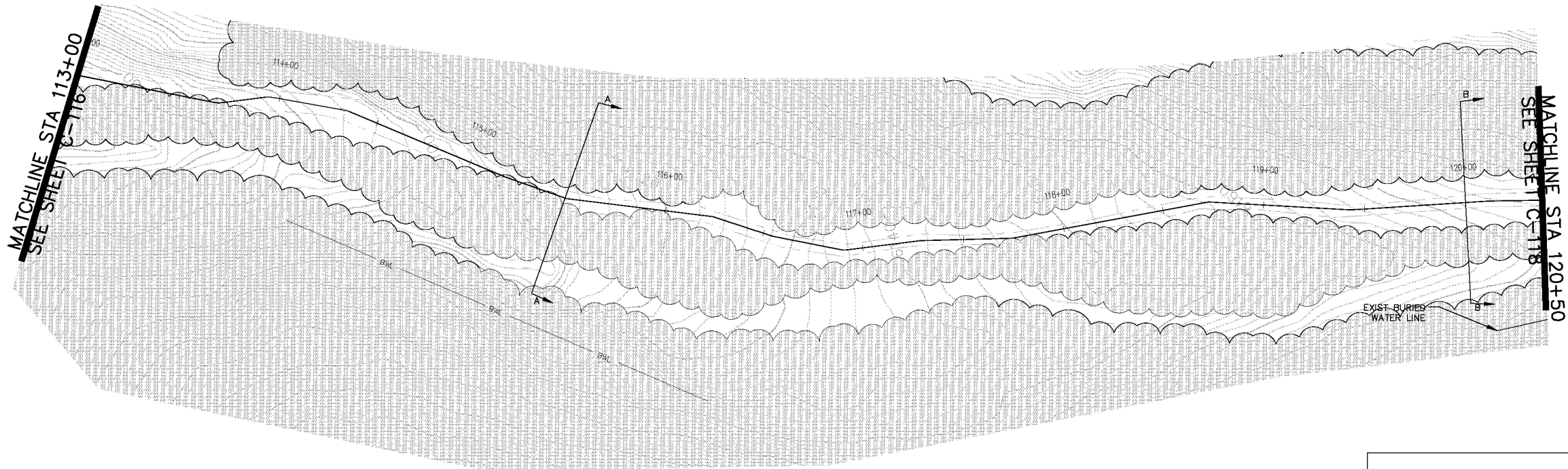
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PLAN  
PROFILE

SHEET NUMBER

**C-116**

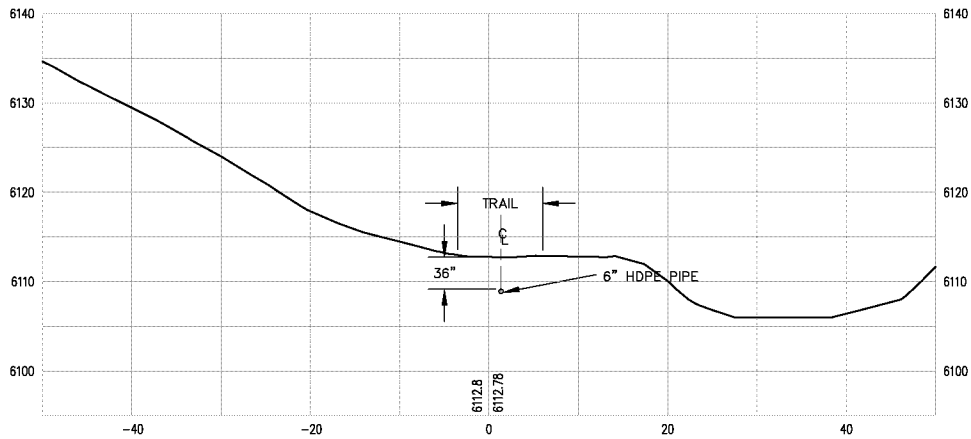
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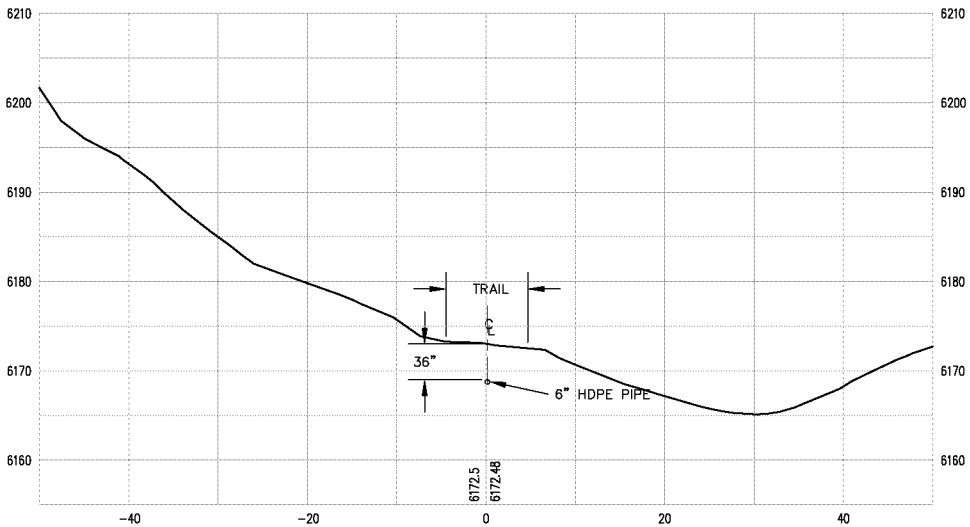
DRAWING KEY  
NTS

NOTES

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CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



CROSS SECTION B-B  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



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CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006	
DFCM PROJECT NO. :	00144420
PROJECT NUMBER:	8DFC010100
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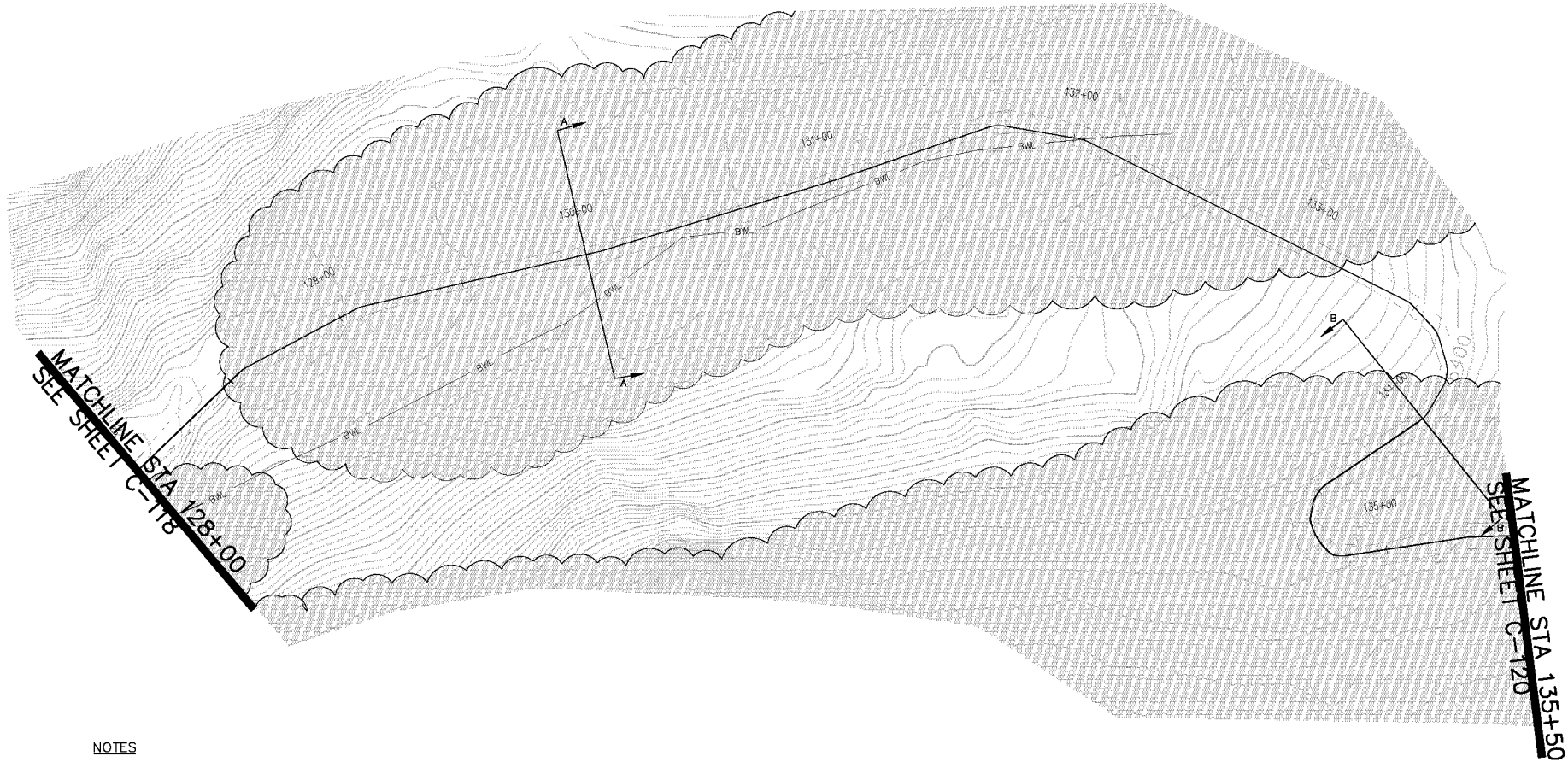
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PROFILE

SHEET NUMBER

**C-117**

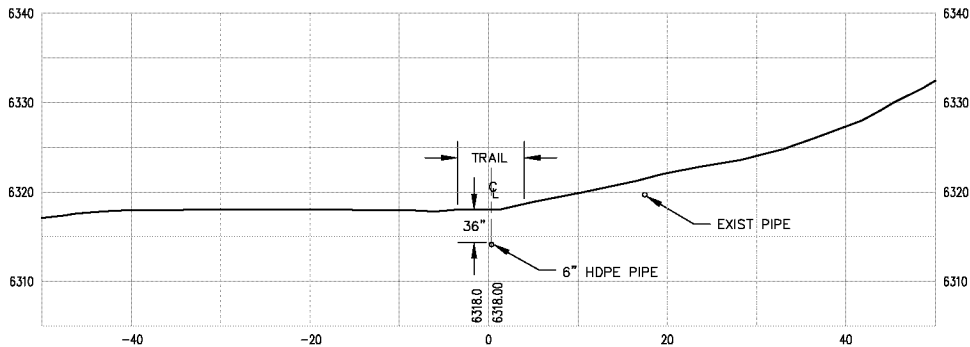
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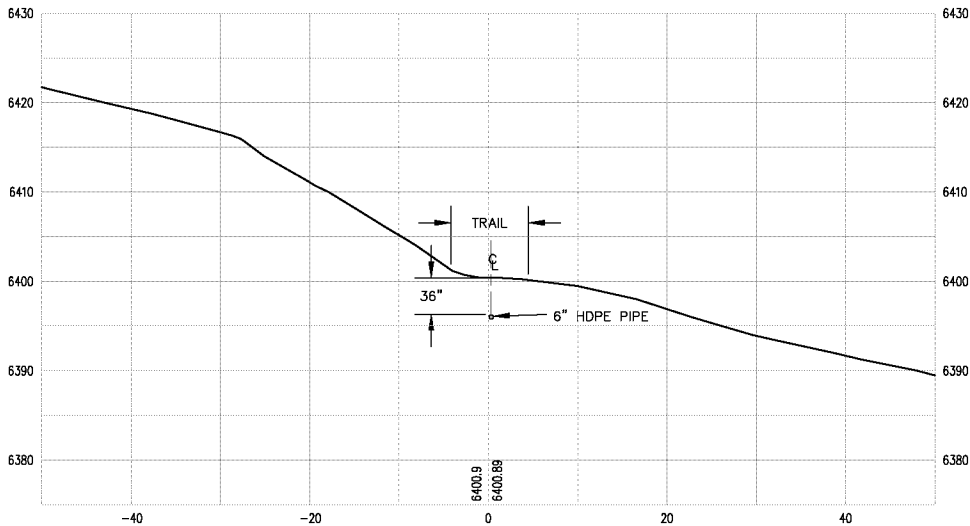
NOTES

1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
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5. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.



CROSS SECTION A-A

HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



CROSS SECTION B-B

HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

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PROJECT NUMBER: 8DFC010100  
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CHECKED BY: MDC

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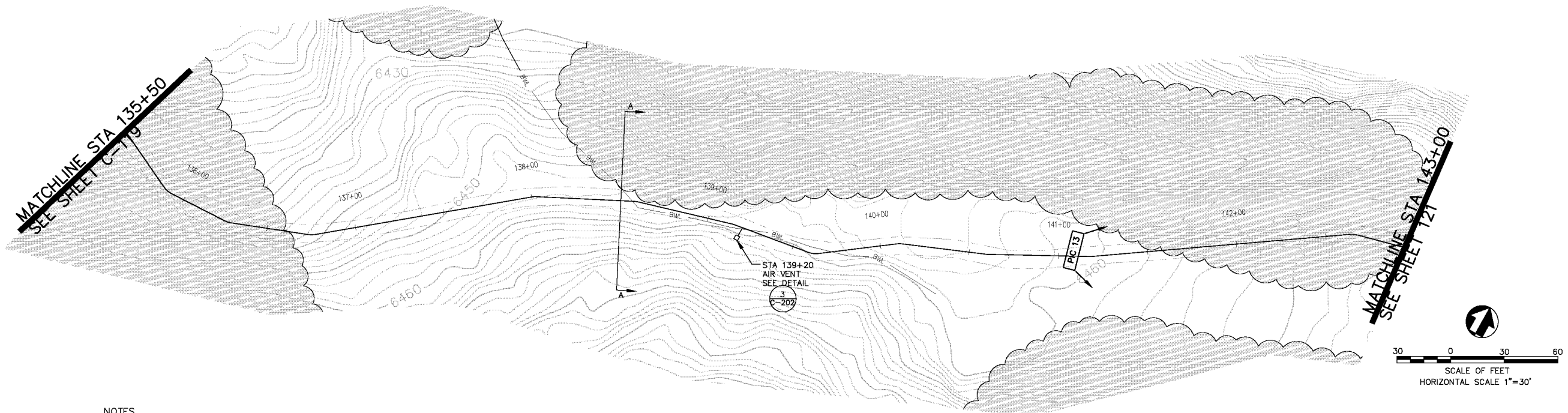
**PLAN  
PROFILE**

SHEET NUMBER

**C-119**

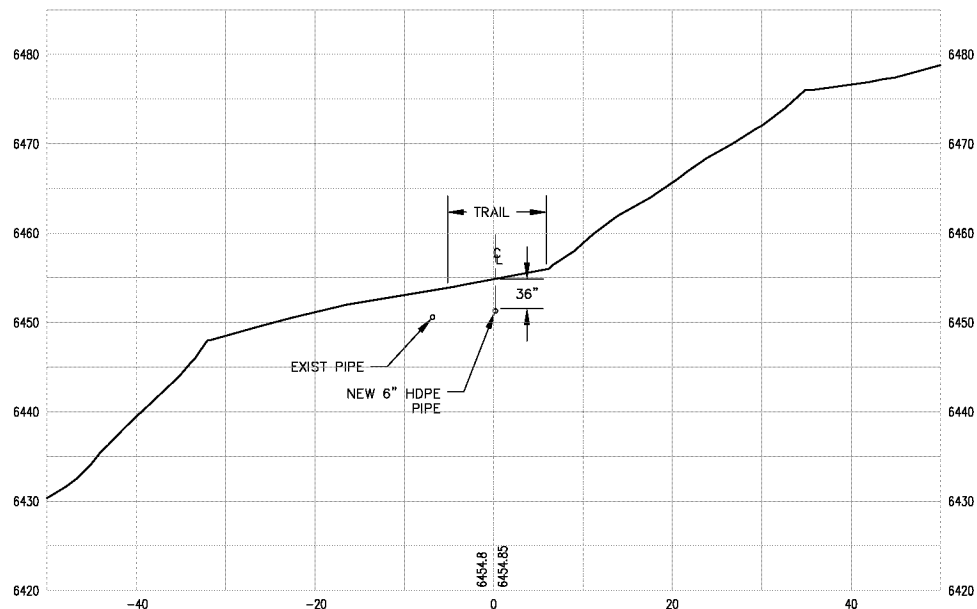
19 OF 42





NOTES

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CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



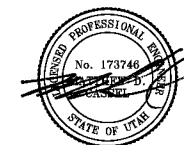
PIC 13



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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
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DRAWN BY: JWH  
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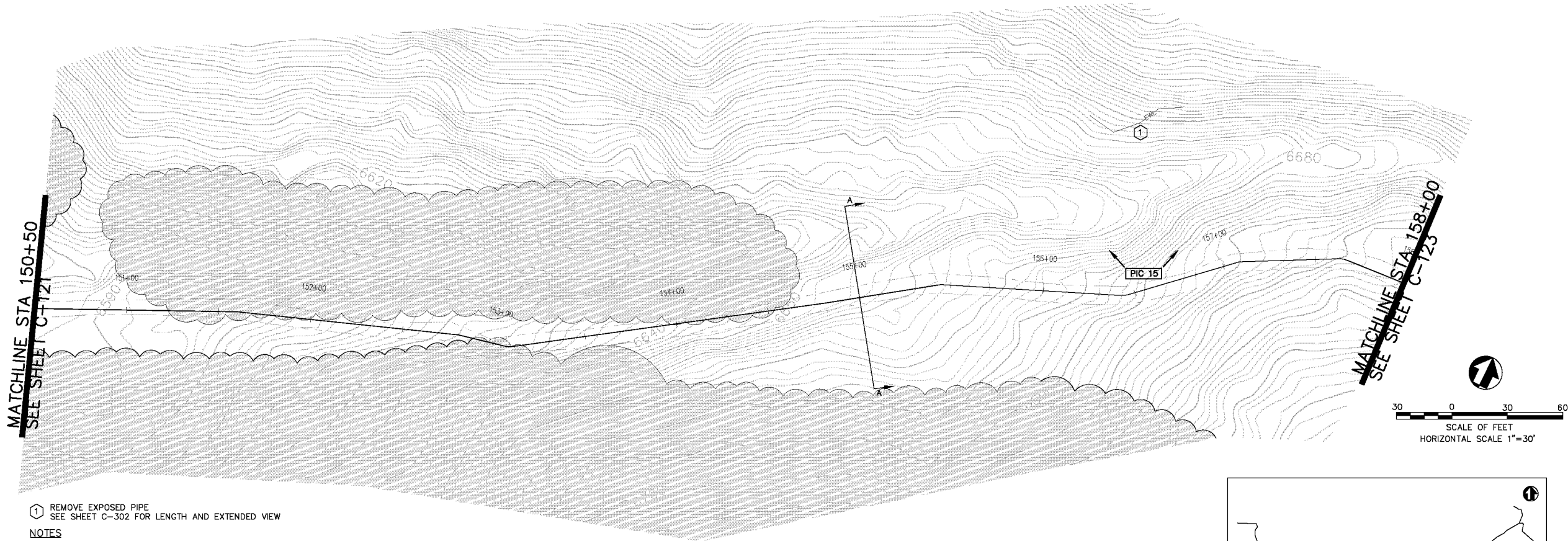
**PLAN  
PROFILE**

SHEET NUMBER

**C-120**

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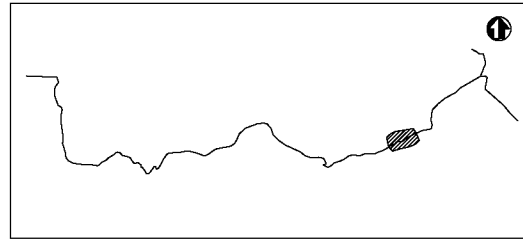




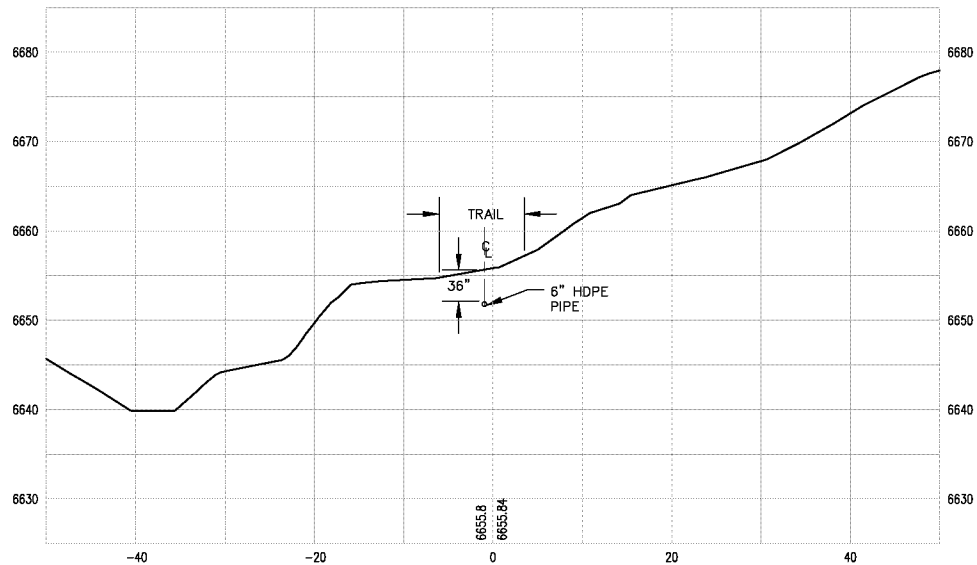
1 REMOVE EXPOSED PIPE  
SEE SHEET C-302 FOR LENGTH AND EXTENDED VIEW

NOTES

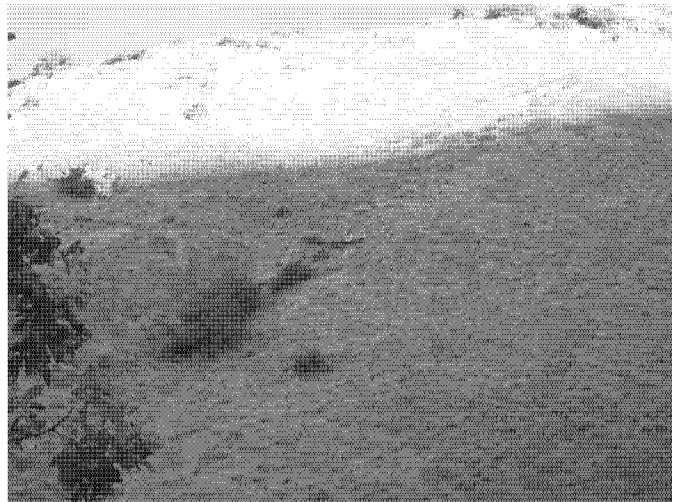
1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
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5. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.



DRAWING KEY  
NTS



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 15



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Salt Lake City, Utah 84123  
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CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
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DRAWN BY: JWH  
CHECKED BY: MDC

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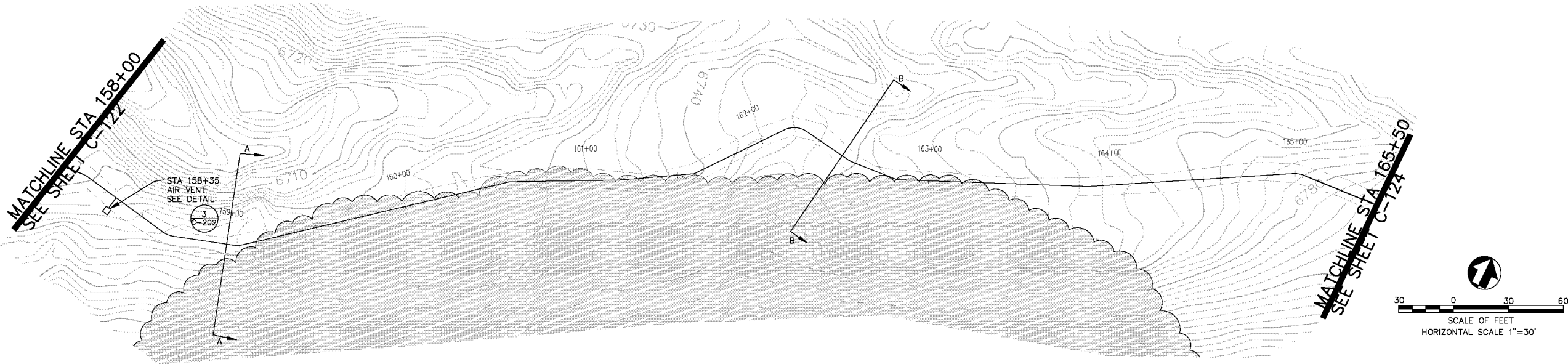
SHEET TITLE

PLAN  
PROFILE

SHEET NUMBER

**C-122**

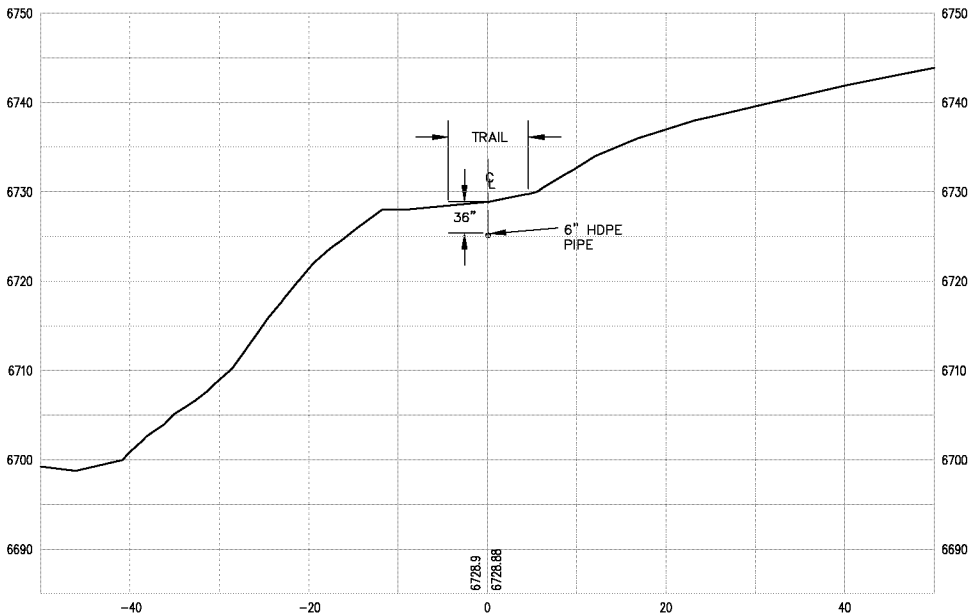
22 OF 42



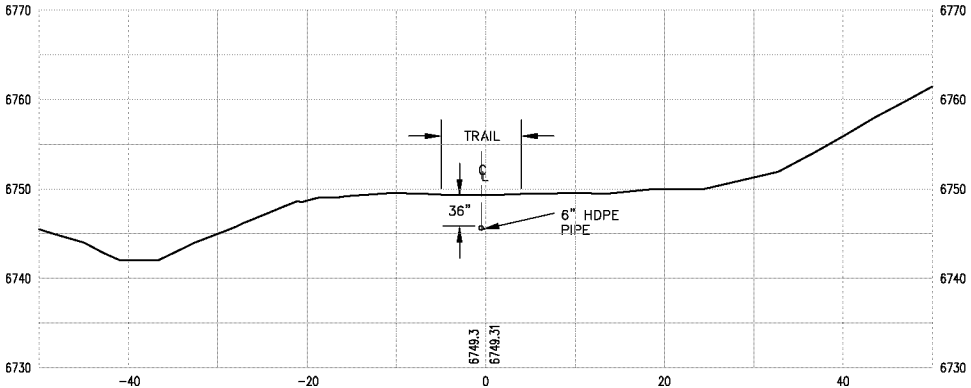
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- CONSTRUCTION LIMITS SHALL BE 5 FEET FROM EITHER SIDE OF THE STATIONED ALIGNMENT
- WHEN EXISTING PIPE IS NOT SHOWN IN PLANS, LOCATION IS UNKNOWN.
- BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.

DRAWING KEY  
NTS



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



CROSS SECTION B-B  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



**PSOMAS**

4179 Riverboat Road , Suite 200  
Salt Lake City, Utah 84123  
(801) 270-5777 (801) 270-5782 (FAX)

CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
DRAWING FILE: \\VOP010100\WORKS\DWG\SHEETS\FINAL DESIGN\SHEET C-123.DWG  
DRAWN BY: JWH  
CHECKED BY: MDC

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SHEET TITLE

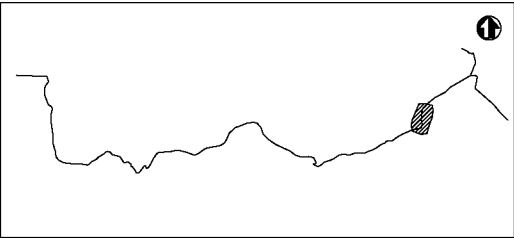
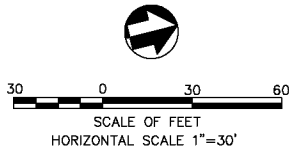
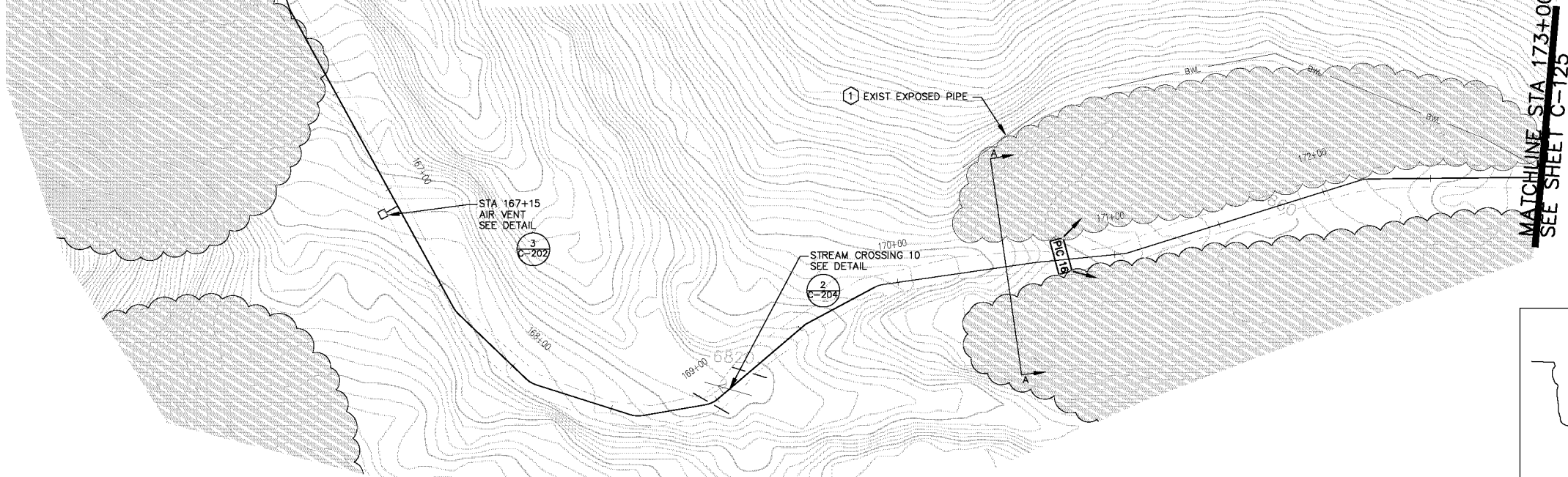
PLAN  
PROFILE

SHEET NUMBER

**C-123**

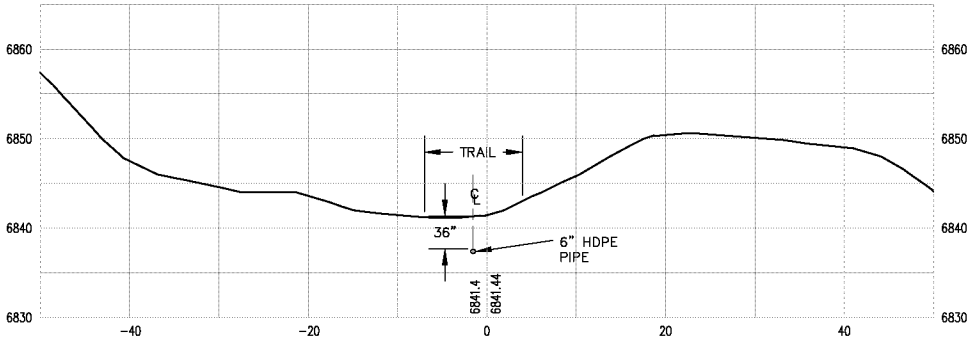
23 OF 42

MATCHLINE STA 165+50  
SEE SHEET C-123



1 REMOVE EXPOSED PIPE  
SEE SHEET C-303 FOR LENGHT AND EXTENDED VIEW

- NOTES
1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
  2. NEW PIPELINE SHALL BE PLACED WITHIN EASEMENT/CONSTRUCTION LIMITS. EXACT LOCATION WITHIN THE EASEMENT/CONSTRUCTION LIMITS CAN VARY TO OPTIMIZE INSTALLATION PROCEDURES.
  3. CONSTRUCTION LIMITS SHALL BE 5 FEET FROM EITHER SIDE OF THE STATIONED ALIGNMENT
  4. WHEN EXISTING PIPE IS NOT SHOWN IN PLANS, LOCATION IS UNKNOWN.



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 16



**PSOMAS**

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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006  
DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
DRAWING FILE: G:\2007\010100\WATERS\DWG\SHEETS\FINAL DESIGN\SHEET C-124.DWG  
DRAWN BY: JWH  
CHECKED BY: MDC  
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SHEET TITLE

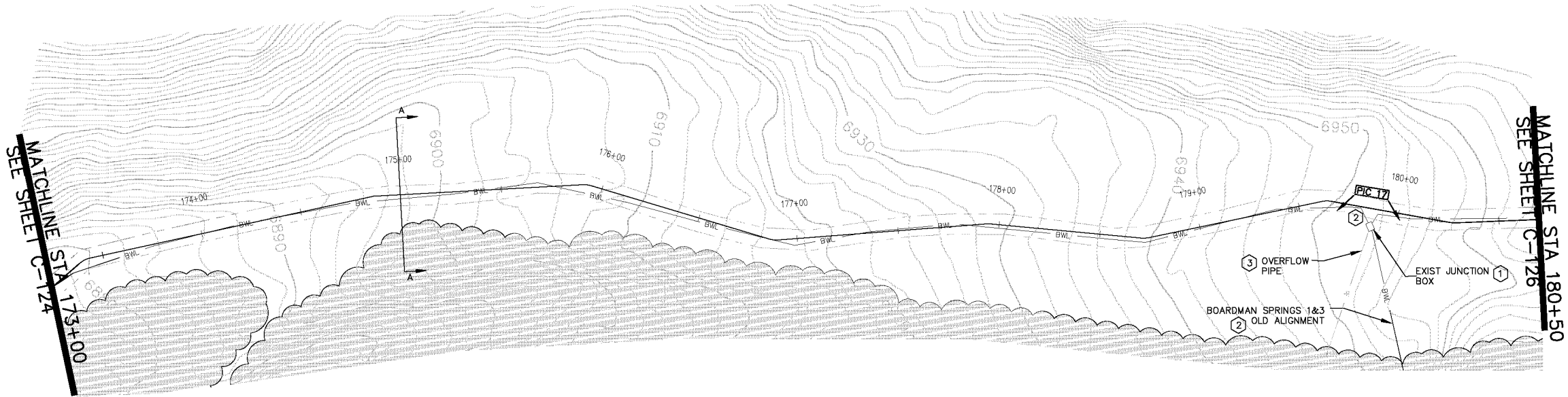
**PLAN  
PROFILE**

SHEET NUMBER

**C-124**

24 OF 42

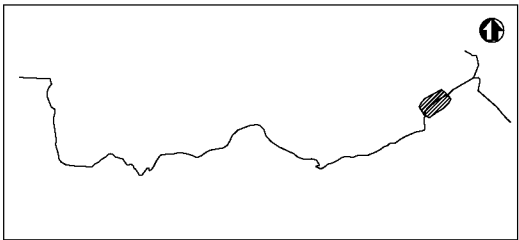




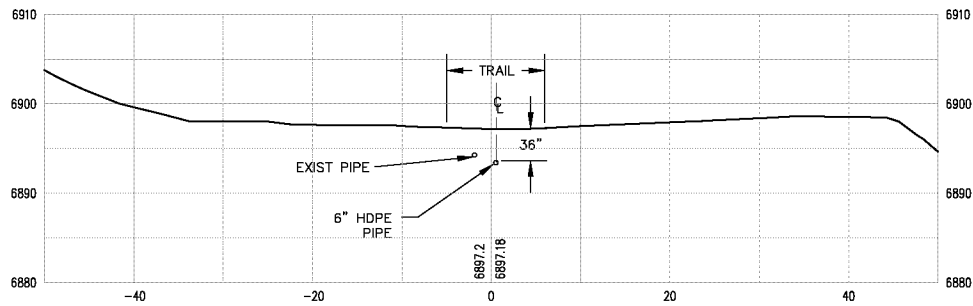
- ① REMOVE JUNCTION BOX  
SEE SHEET C-303 FOR EXTENDED VIEW
- ② CAP AND ABANDON EXIST BURIED PIPE
- ③ REMOVE OVERFLOW PIPE.

NOTES

1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
2. NEW PIPELINE SHALL BE PLACED WITHIN EASEMENT/CONSTRUCTION LIMITS. EXACT LOCATION WITHIN THE EASEMENT/CONSTRUCTION LIMITS CAN VARY TO OPTIMIZE INSTALLATION PROCEDURES.
3. CONSTRUCTION LIMITS SHALL BE 5 FEET FROM EITHER SIDE OF THE STATIONED ALIGNMENT
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DRAWING KEY  
NTS



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 17



**PSOMAS**

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CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
DRAWING FILE: U:\2006\010100\WATRES\DWG\SHEETS\FINAL DESIGN\SHEET C-125.DWG  
DRAWN BY: JWH  
CHECKED BY: MDC

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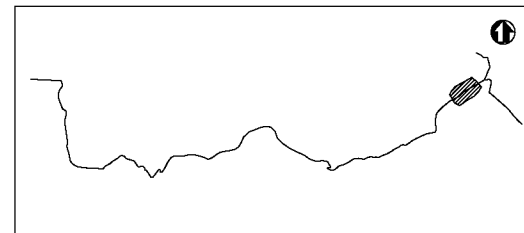
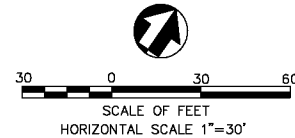
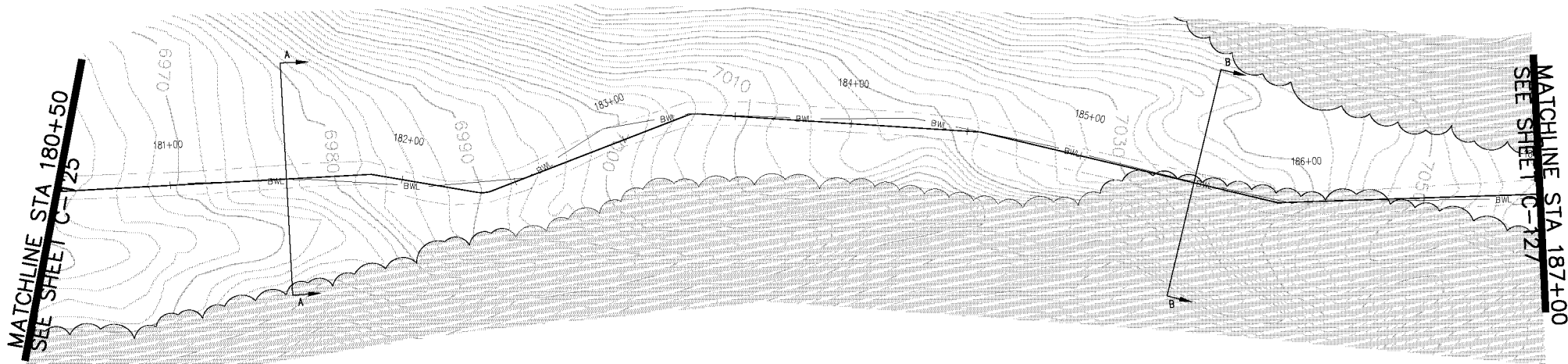
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PLAN  
PROFILE

SHEET NUMBER

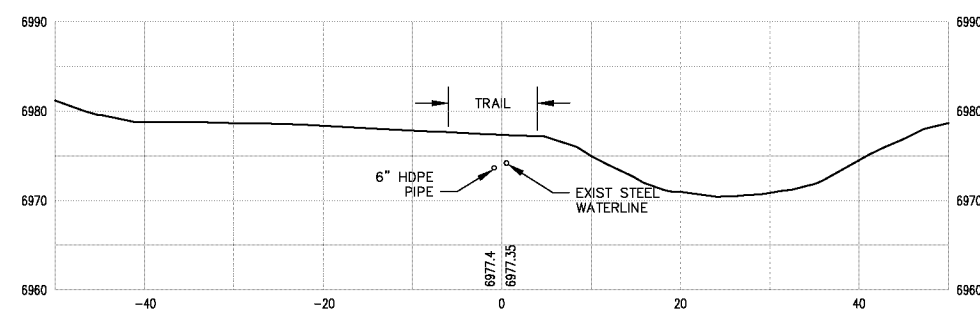
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25 OF 42

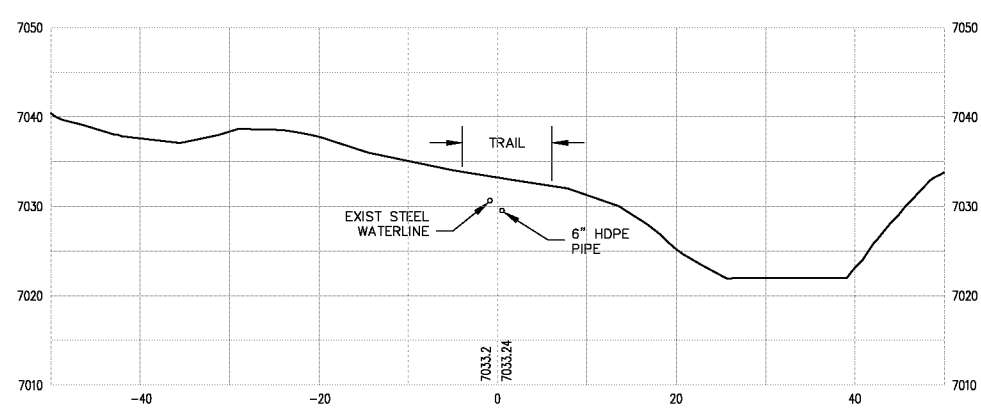


DRAWING KEY  
NTS

- NOTES
1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
  2. NEW PIPELINE SHALL BE PLACED WITHIN EASEMENT/CONSTRUCTION LIMITS. EXACT LOCATION WITHIN THE EASEMENT/CONSTRUCTION LIMITS CAN VARY TO OPTIMIZE INSTALLATION PROCEDURES.
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  4. WHEN EXISTING PIPE IS NOT SHOWN IN PLANS, LOCATION IS UNKNOWN.



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



CROSS SECTION B-B  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



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Salt Lake City, Utah 84123  
(801) 270-5777 (801) 270-5782 (FAX)

CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006  
DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
DRAWING FILE: \\s\dfcm\010100\WATER\DWG\SHEETS\FINAL DESIGN\SHEET C-126.DWG  
DRAWN BY: JWH  
CHECKED BY: MDC  
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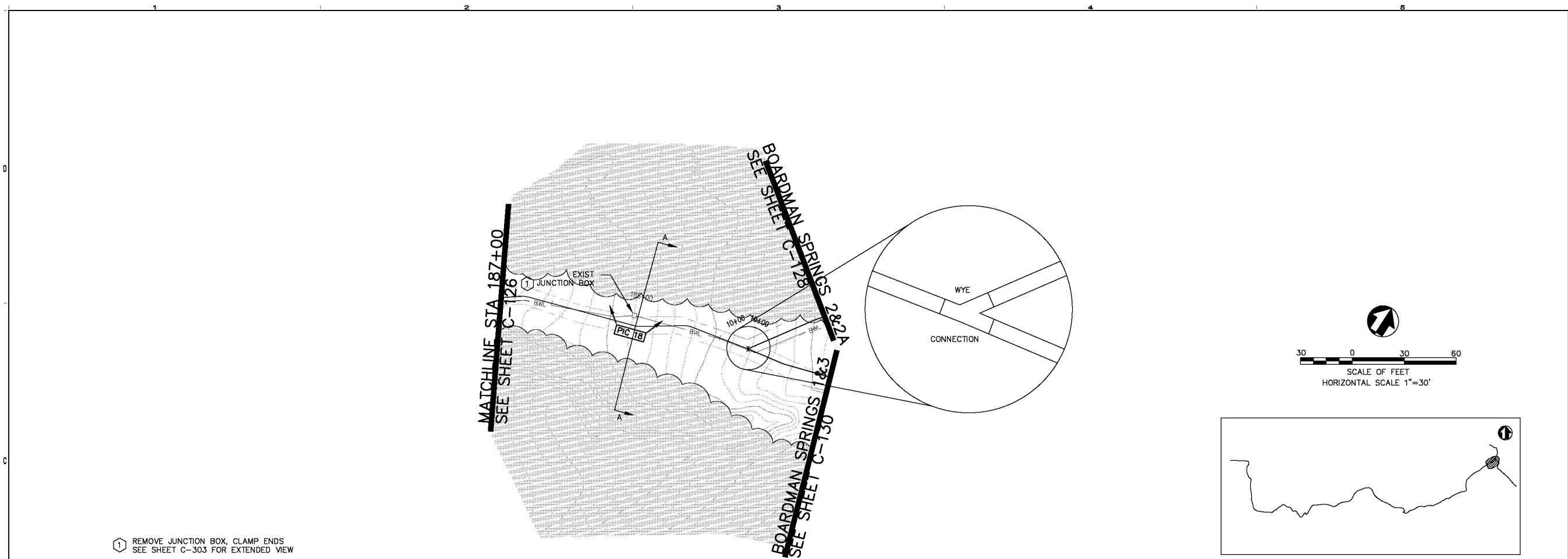
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PLAN  
PROFILE

SHEET NUMBER

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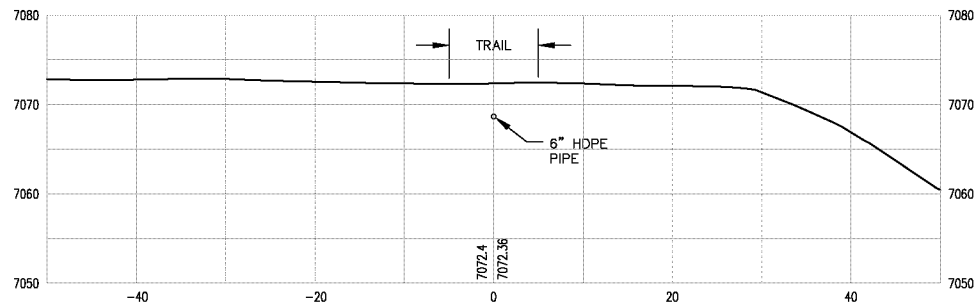
26 OF 42



1 REMOVE JUNCTION BOX, CLAMP ENDS  
SEE SHEET C-303 FOR EXTENDED VIEW

NOTES

- EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
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CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 18



PSOMAS

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PROJECT NAME

SLATE CANYON  
PROVO, UTAH

PROJECT TITLE

WATER  
PIPELINE  
REPLACEMENT

OWNER

STATE HOSPITAL

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006	
DFCM PROJECT NO. :	00144420
PROJECT NUMBER:	8DFC010100
DRAWING FILE:	U:\8DFC010100\WATRES\DWG\SHEETS\FINAL DESIGN\SHEET C-127.DWG
DRAWN BY:	JWH
CHECKED BY:	MDC
COPYRIGHT 2006 PSOMAS	

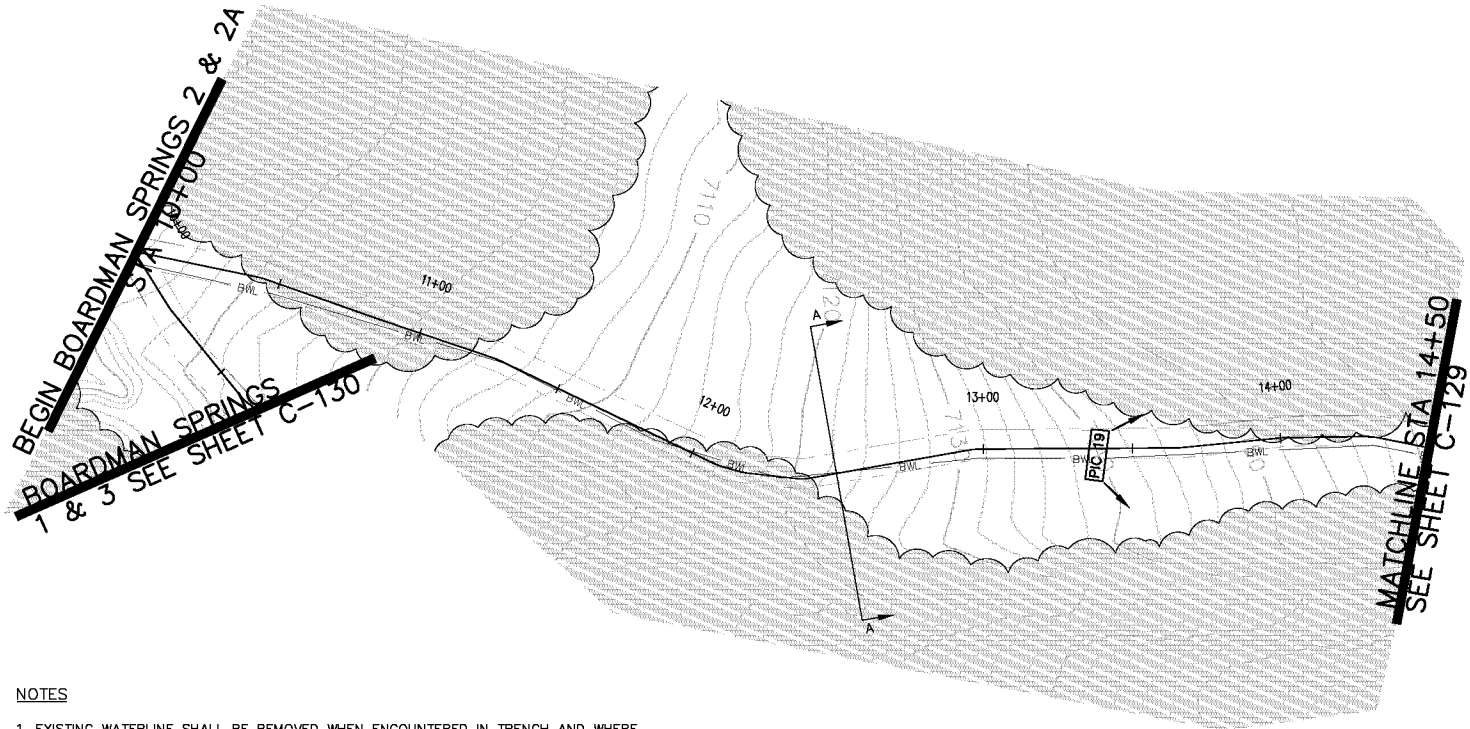
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PLAN  
PROFILE

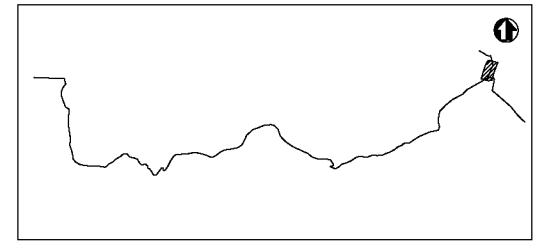
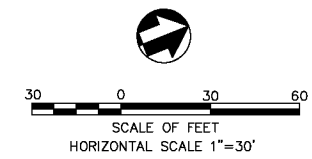
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C-127

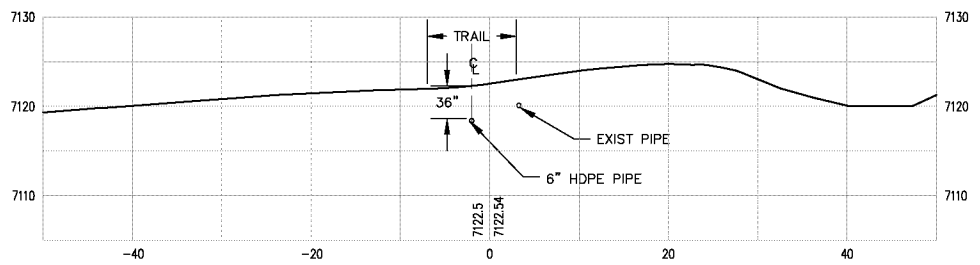
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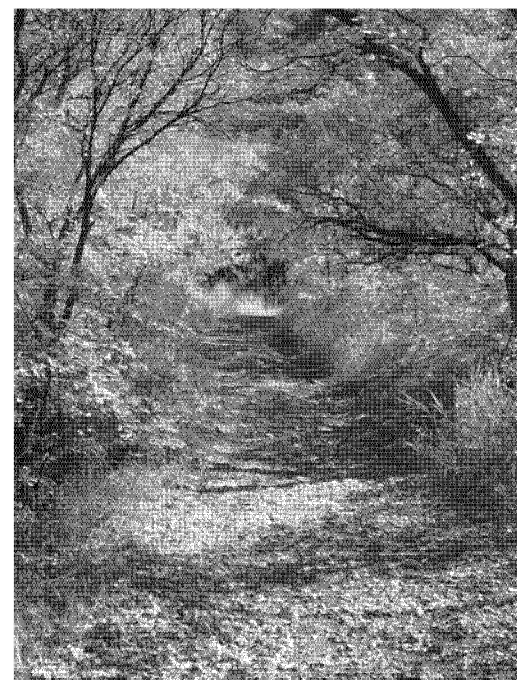
- NOTES
1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
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  3. CONSTRUCTION LIMITS SHALL BE 5 FEET FROM EITHER SIDE OF THE STATIONED ALIGNMENT
  4. WHEN EXISTING PIPE IS NOT SHOWN IN PLANS, LOCATION IS UNKNOWN.



DRAWING KEY  
NTS



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 19



**PSOMAS**  
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Salt Lake City, Utah 84123  
(801) 270-5777 (801) 270-5782 (FAX)

CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006  
DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
DRAWING FILE: \\BSP001\B000\WATRES\DWG\SHREETS\FINAL DESIGN\SHREET C-128.DWG  
DRAWN BY: JWH  
CHECKED BY: MDC  
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SHEET TITLE

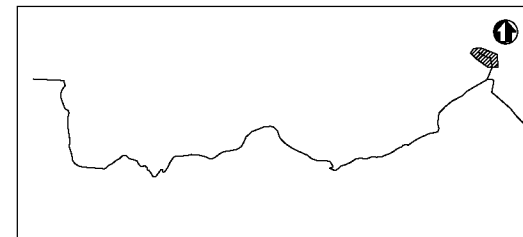
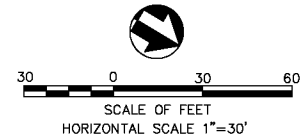
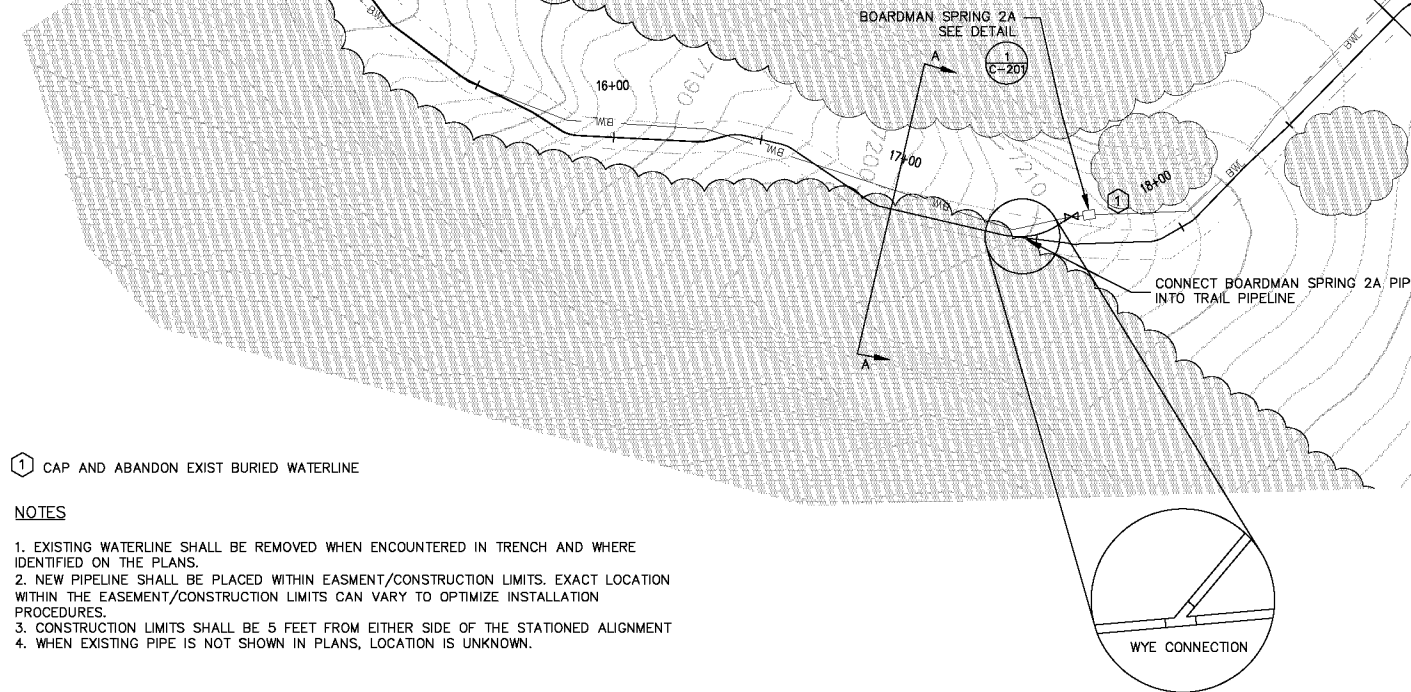
**PLAN  
PROFILE**

SHEET NUMBER

**C-128**

MATCHLINE STATION 14+50  
SEE SHEET C-128

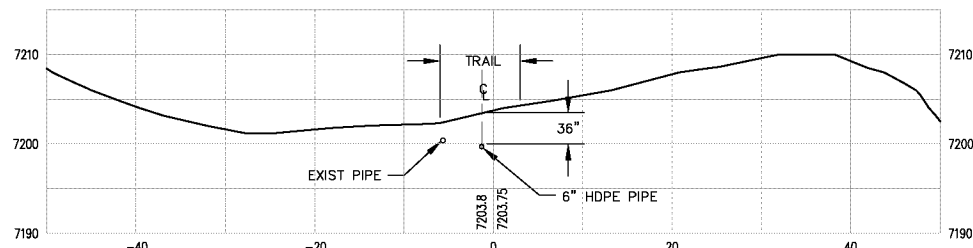
END BOARDMAN SPRINGS 28+2A  
STATION 21+05.8



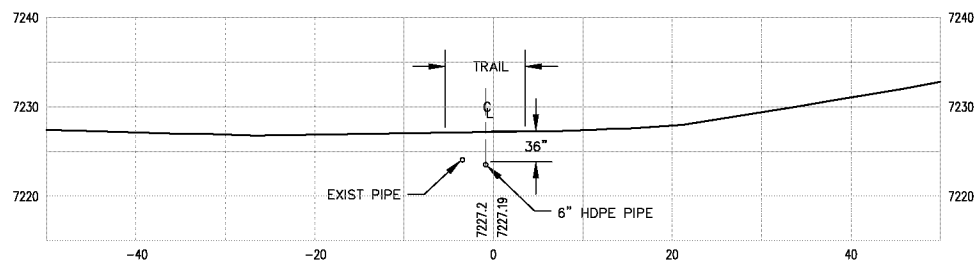
1 CAP AND ABANDON EXIST BURIED WATERLINE

#### NOTES

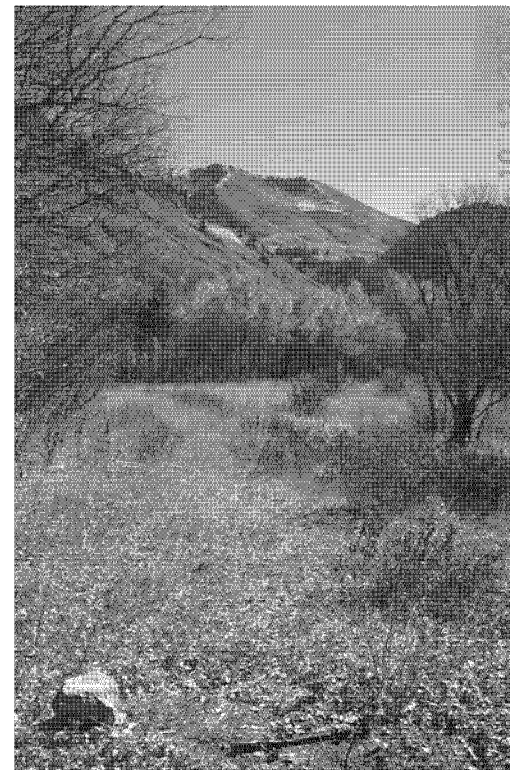
1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
2. NEW PIPELINE SHALL BE PLACED WITHIN EASMENT/CONSTRUCTION LIMITS. EXACT LOCATION WITHIN THE EASEMENT/CONSTRUCTION LIMITS CAN VARY TO OPTIMIZE INSTALLATION PROCEDURES.
3. CONSTRUCTION LIMITS SHALL BE 5 FEET FROM EITHER SIDE OF THE STATIONED ALIGNMENT
4. WHEN EXISTING PIPE IS NOT SHOWN IN PLANS, LOCATION IS UNKNOWN.



CROSS SECTION A-A  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



CROSS SECTION B-B  
HORIZONTAL SCALE 1"=10'  
VERTICAL SCALE 1"=10'



PIC 20



**PSOMAS**

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(801) 270-5777 (801) 270-5782 (FAX)

CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO.: 00144420  
PROJECT NUMBER: 8DFC010100  
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DRAWN BY: JWH  
CHECKED BY: MDC

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SHEET TITLE

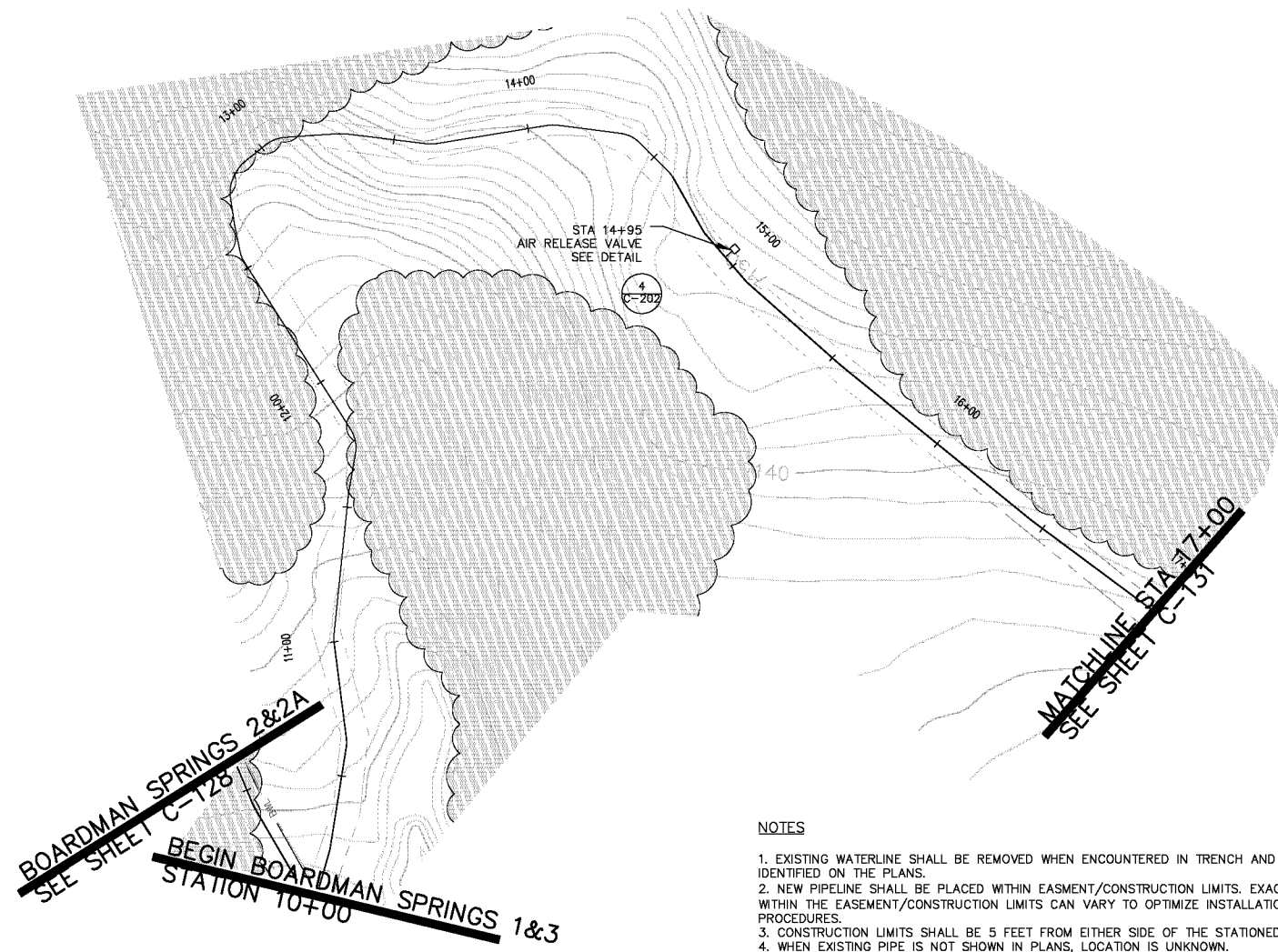
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SHEET NUMBER

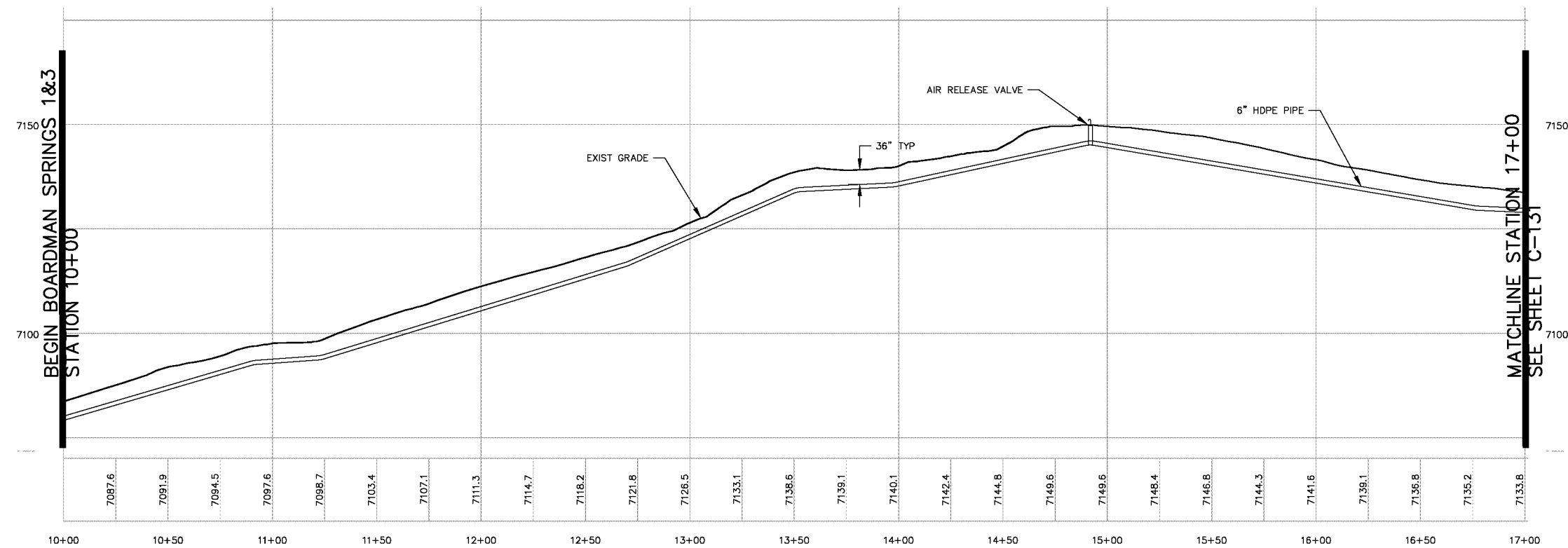
**C-129**

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- NOTES
1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
  2. NEW PIPELINE SHALL BE PLACED WITHIN EASEMENT/CONSTRUCTION LIMITS. EXACT LOCATION WITHIN THE EASEMENT/CONSTRUCTION LIMITS CAN VARY TO OPTIMIZE INSTALLATION PROCEDURES.
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**PSOMAS**  
4179 Riverboat Road , Suite 200  
Salt Lake City, Utah 84123  
(801) 270-5777 (801) 270-5782 (FAX)

CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006  
DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
DRAWING FILE: L:\801020100\WATERS\DWG\SHEETS\FINAL DESIGN\SHEET C-130.DWG  
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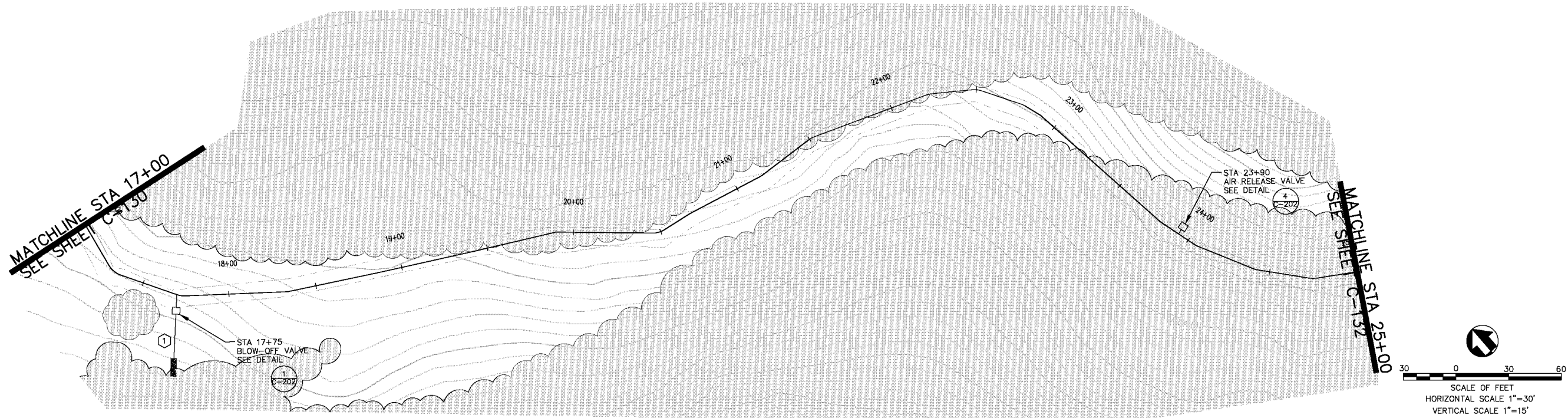
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**PLAN  
PROFILE**

SHEET NUMBER

**C-130**

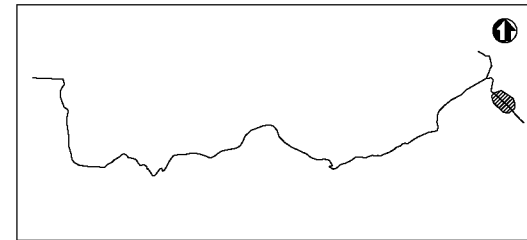
30 OF 42



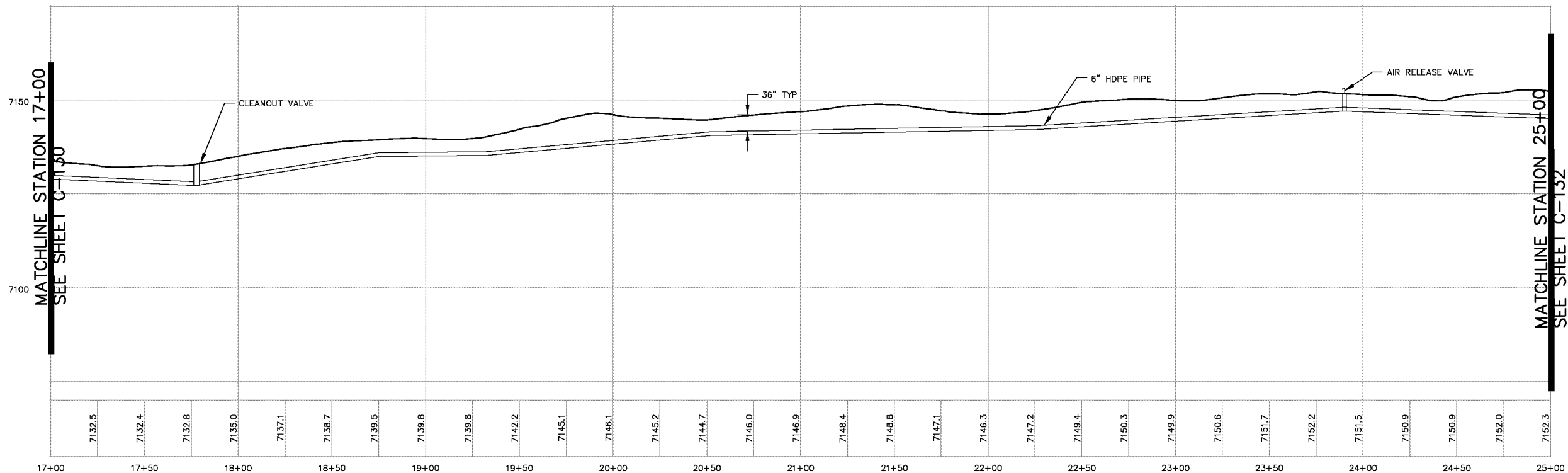
1 INSTALL ±25 FEET 6" HDPE PIPE. INSTALL PIPE AT A 2% SLOPE UNTIL IT DAYLIGHTS. ADD 2' x 10' ROCK SLOPE PROTECTION BELOW PIPE.

NOTES

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DRAWING KEY  
NTS



**PSOMAS**

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Salt Lake City, Utah 84123  
(801) 270-5777 (801) 270-5782 (FAX)

CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
DRAWING FILE: U:\BPC010100\WATERS\DWG\SHEETS\FINAL DESIGN\SHEET C-131.DWG  
DRAWN BY: JWH  
CHECKED BY: MDC

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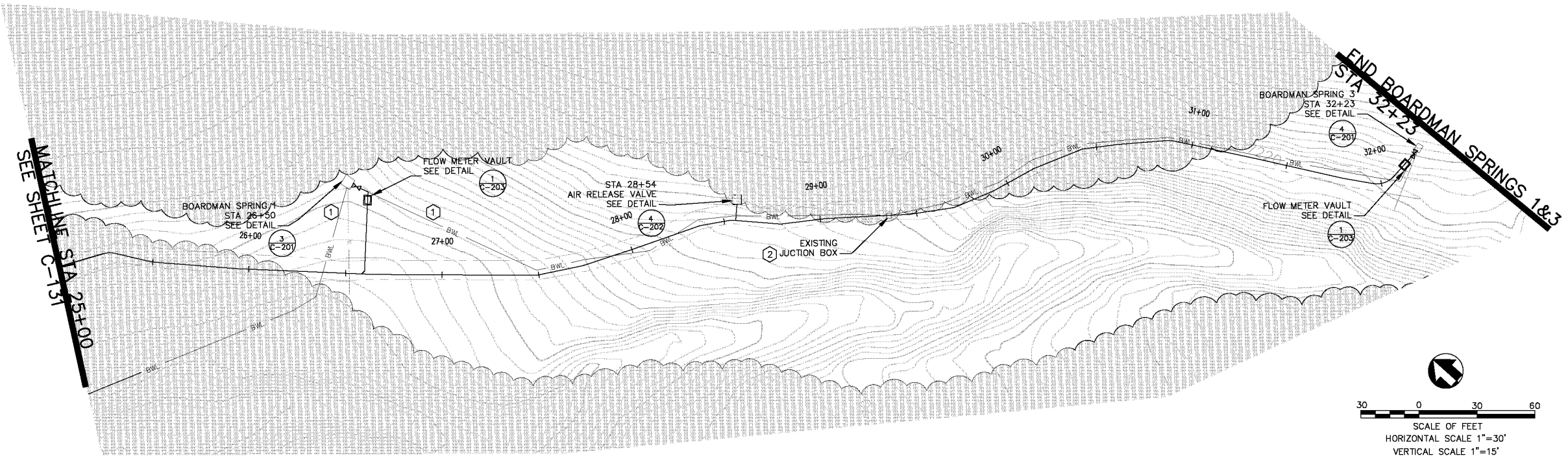
SHEET TITLE

**PLAN  
PROFILE**

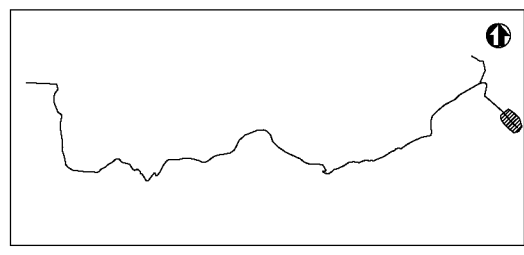
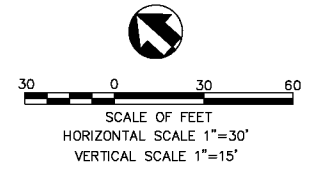
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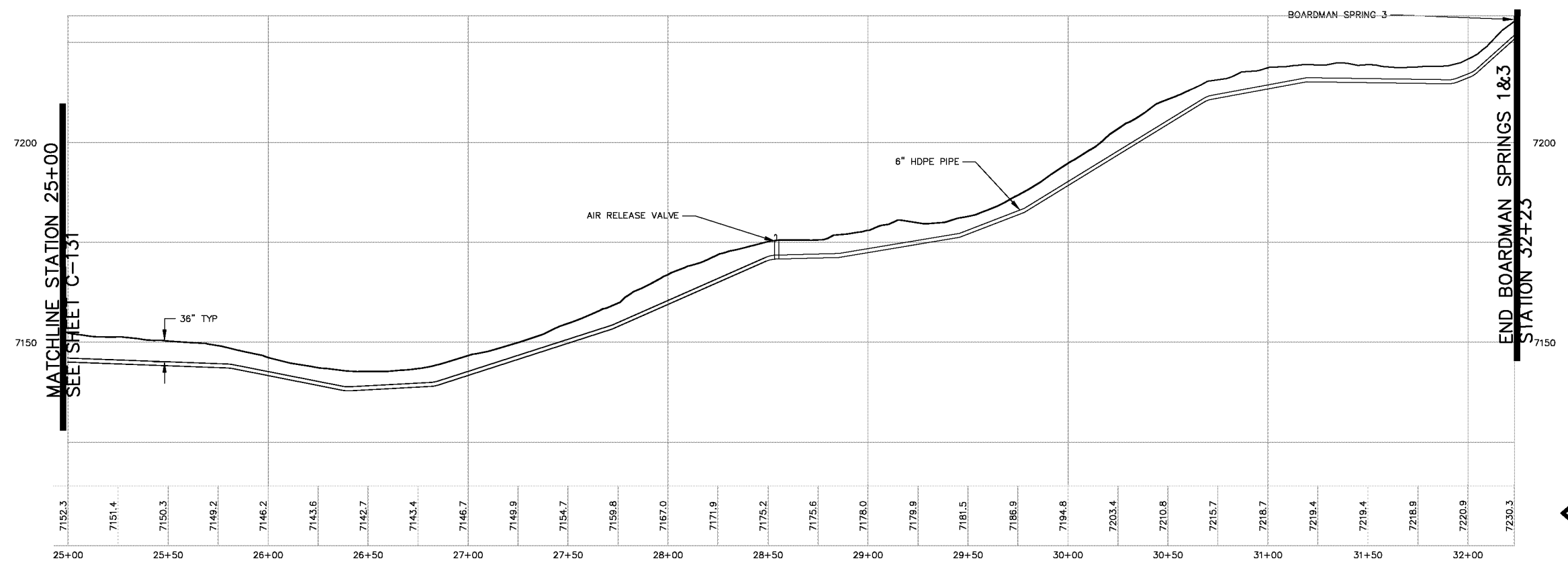
31 OF 42



1. CAP AND ABANDON EXIST BURIED WATERLINE
2. REMOVE JUNCTION BOX  
SEE SHEET C-303 FOR EXTENDED VIEW
- NOTES
1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
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DRAWING KEY  
NTS



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4179 Riverboat Road , Suite 200  
Salt Lake City, Utah 84123  
(801) 270-5777 (801) 270-5782 (FAX)

CREATED BY: PSOMAS



PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420

PROJECT NUMBER: 8DFC010100

DRAWING FILE: \\PSOCD0100\WORKS\DWG\PROJECTS\FINAL DESIGN\SHEET C-132.DWG

DRAWN BY: JWH

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SHEET TITLE

**PLAN  
PROFILE**

SHEET NUMBER

**C-132**

32 OF 42

PSOMAS

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CREATED BY: PSOMAS



PROJECT NAME

SLATE CANYON  
PROVO, UTAH

PROJECT TITLE

WATER  
PIPELINE  
REPLACEMENT

OWNER

STATE HOSPITAL

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
DRAWING FILE: \\180FC010100\WATRES\DWG\SHEETS\FINAL DESIGN\Sheet C-201.DWG  
DRAWN BY: JWH  
CHECKED BY: MDC

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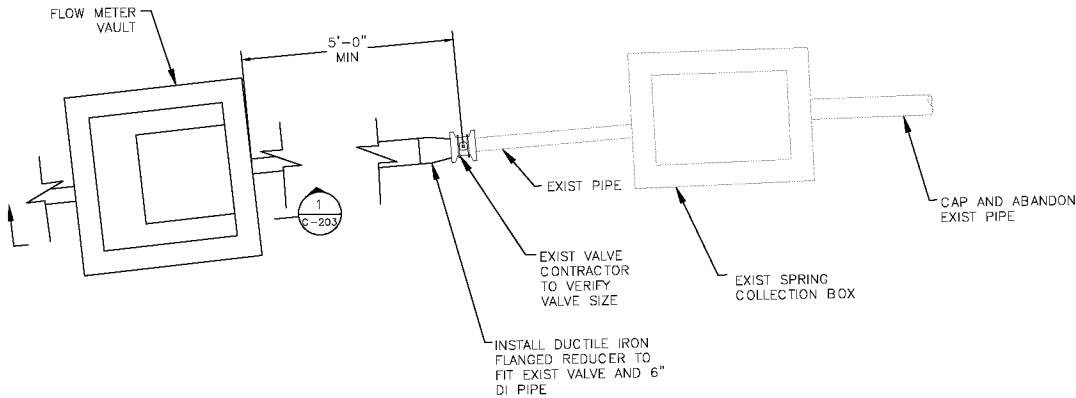
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CONNECTION  
DETAILS

SHEET NUMBER

C-201

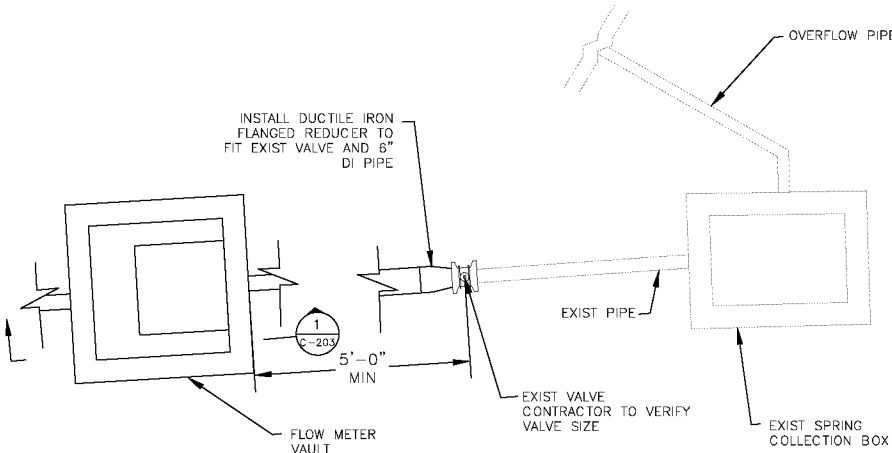
33 OF 42



NOTES

1. GRADE AROUND EXISTING SPRING COLLECTION BOX SO THAT WATER FLOWS AWAY FROM BOX.
2. CONTRACTOR SHALL LOCATE EXISTING VALVE BEFORE CONSTRUCTION

PIPE CONNECTION DETAIL  
BOARDMAN SPRING 2A STATION 17+61  
N.T.S.



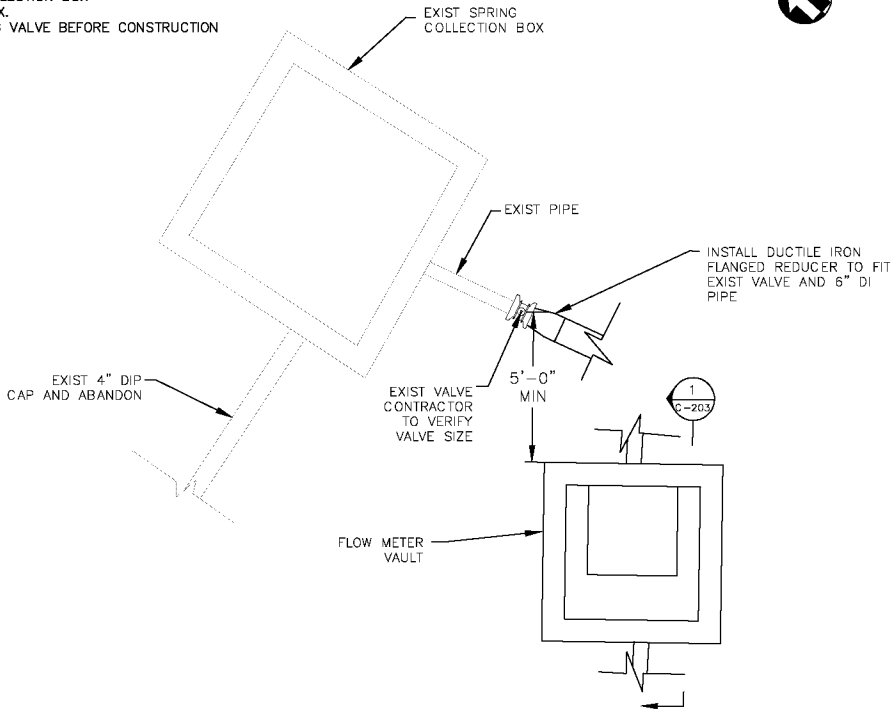
NOTES

1. GRADE AROUND EXISTING SPRING COLLECTION BOX SO THAT WATER FLOWS AWAY FROM BOX.
2. CONTRACTOR SHALL LOCATE EXISTING VALVE BEFORE CONSTRUCTION

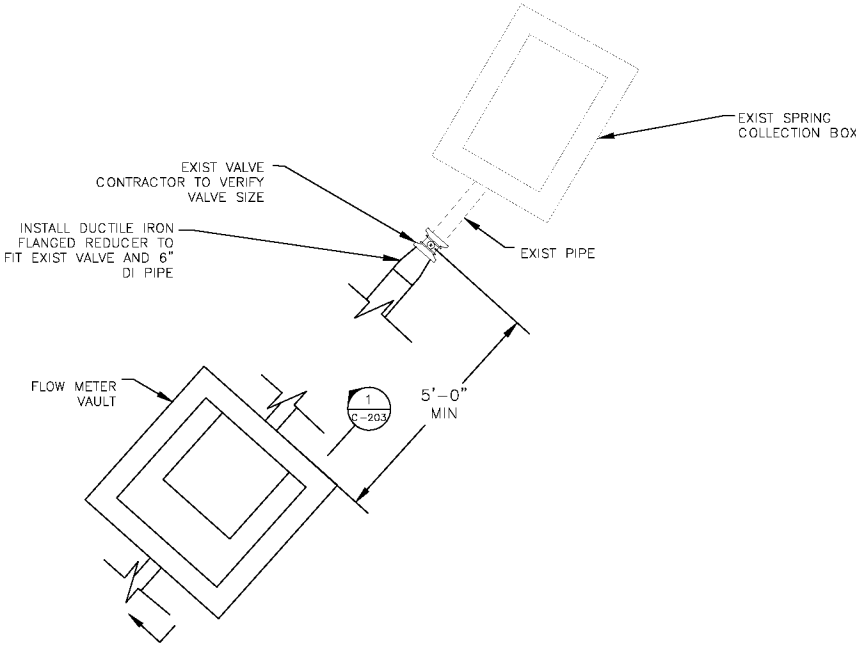
PIPE CONNECTION DETAIL  
BOARDMAN SPRING 2 STATION 21+05  
N.T.S.

NOTES

1. GRADE AROUND EXISTING SPRING COLLECTION BOX SO THAT WATER FLOWS AWAY FROM BOX.
2. CONTRACTOR SHALL LOCATE EXISTING VALVE BEFORE CONSTRUCTION



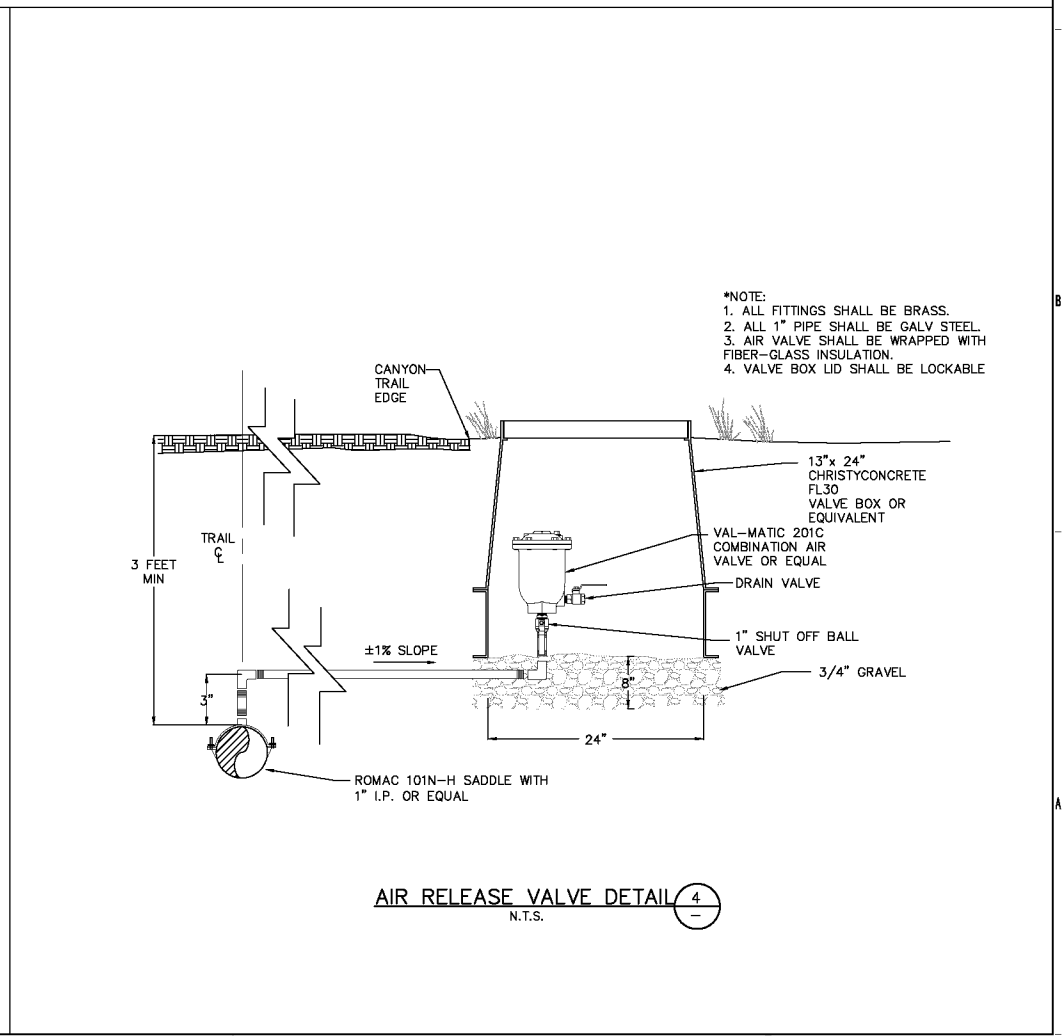
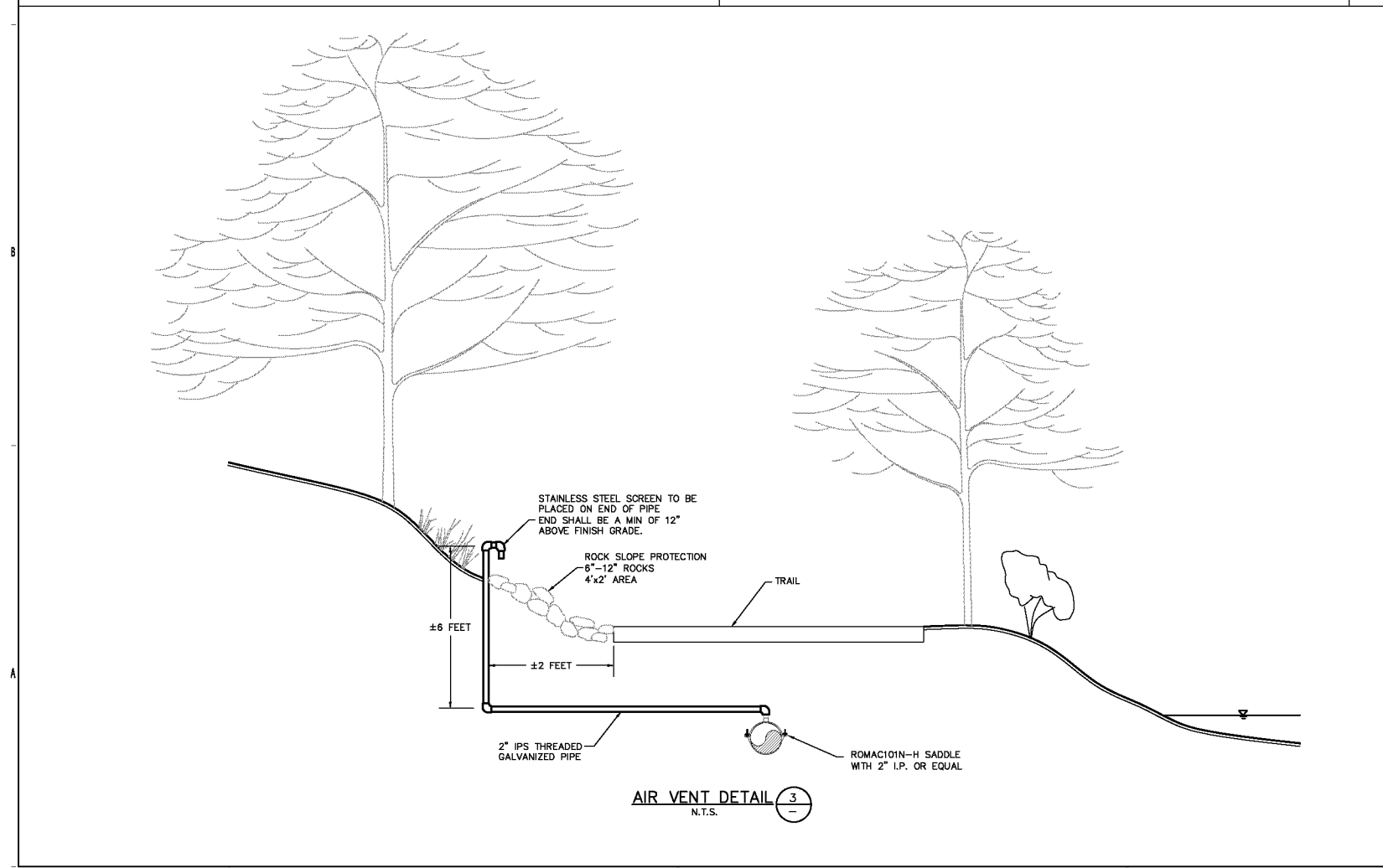
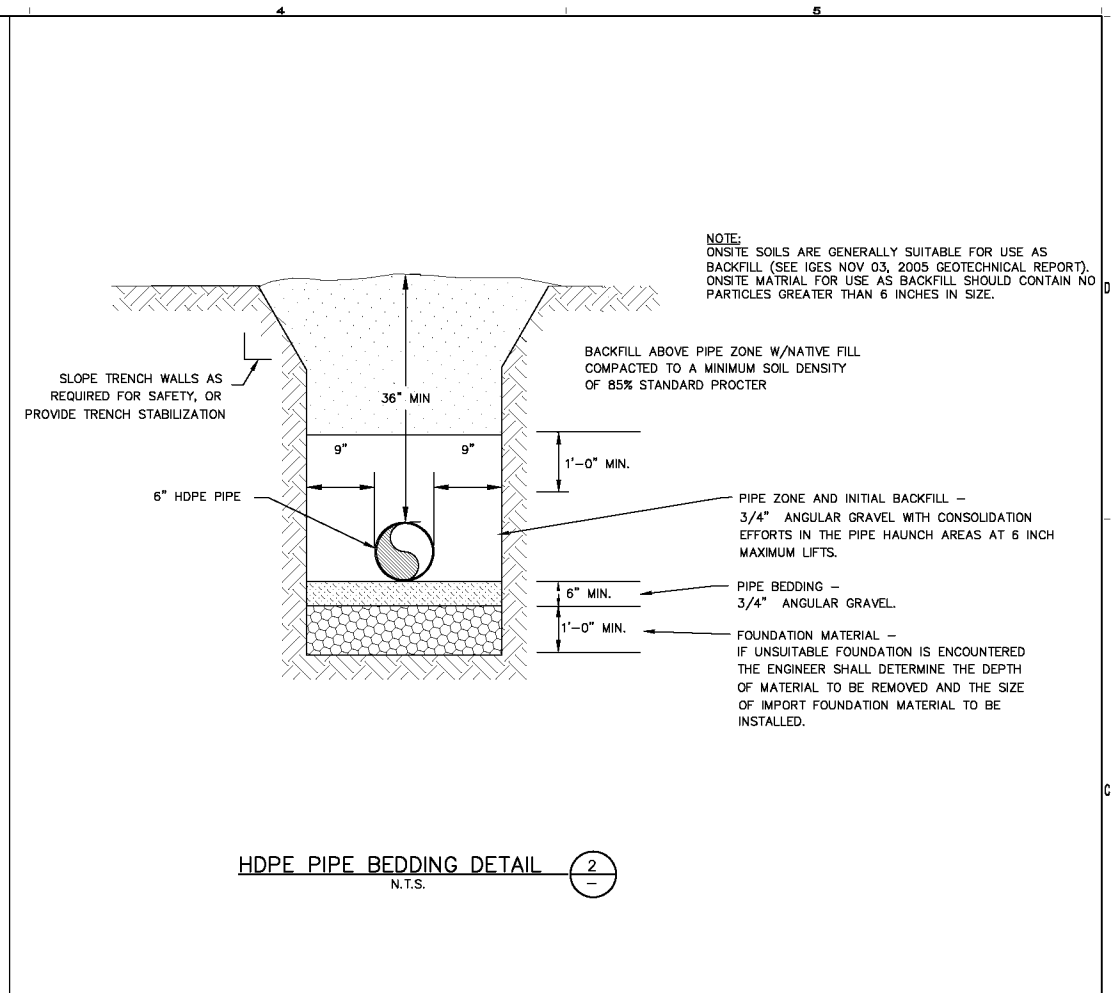
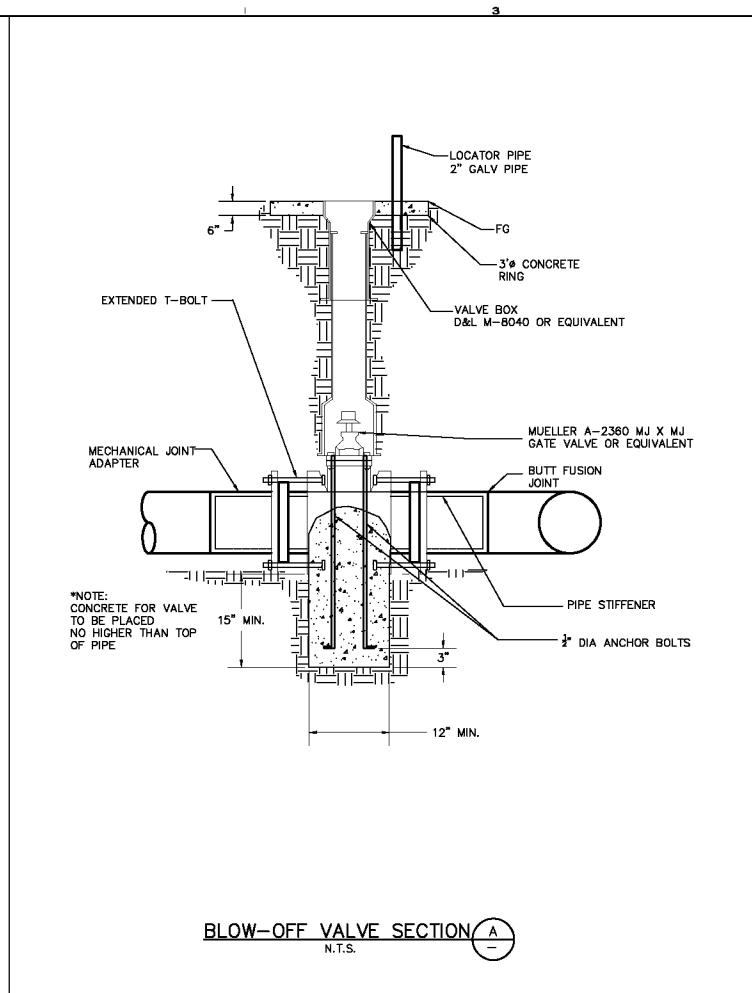
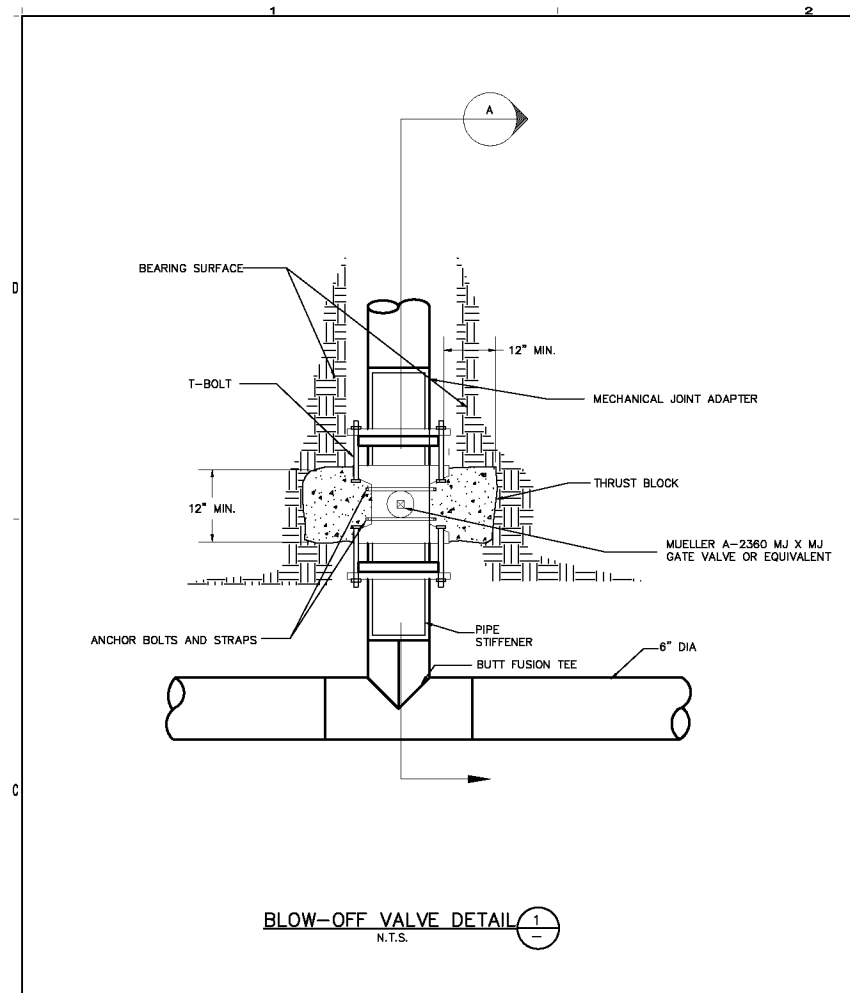
PIPE CONNECTION DETAIL  
BOARDMAN SPRING 1 STATION 26+50  
N.T.S.



NOTES

1. GRADE AROUND EXISTING SPRING COLLECTION BOX SO THAT WATER FLOWS AWAY FROM BOX.
2. CONTRACTOR SHALL LOCATE EXISTING VALVE BEFORE CONSTRUCTION

PIPE CONNECTION DETAIL  
BOARDMAN SPRING 3 STATION 32+50  
N.T.S.



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PROJECT NAME

## SLATE CANYON

PROVO, UTAH

PROJECT TITLE

## WATER PIPELINE REPLACEMENT

OWNER

## STATE HOSPITAL

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420

PROJECT NUMBER: 8DFC010100

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DRAWN BY: JWH

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SHEET TITLE

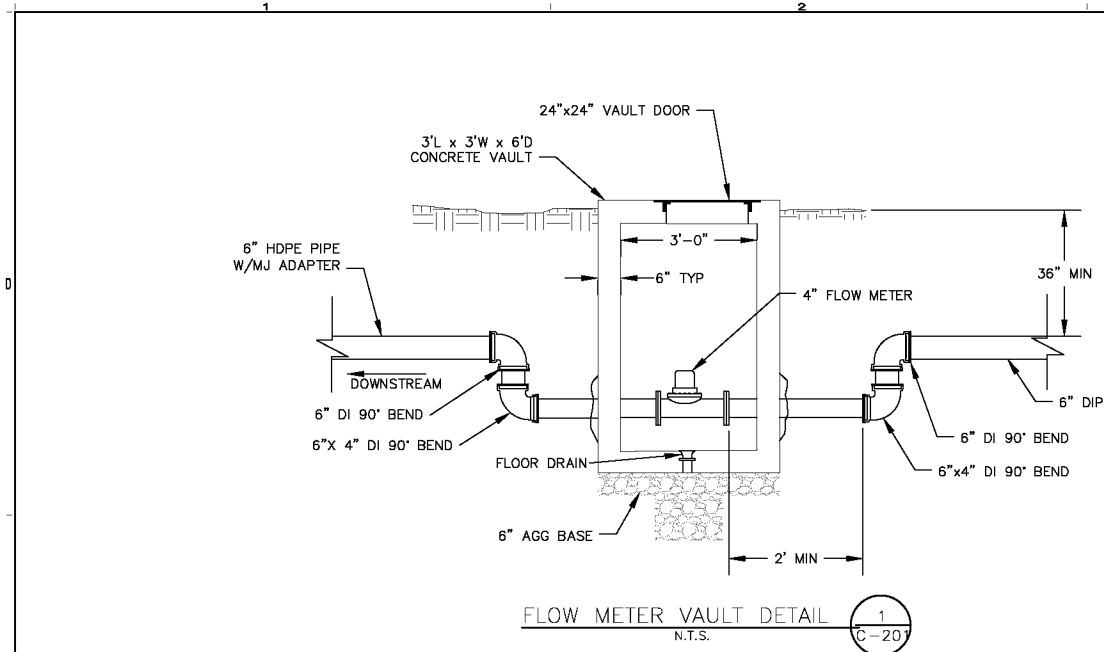
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SHEET NUMBER

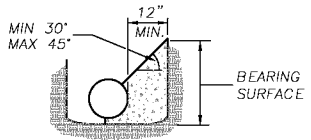
# C-202

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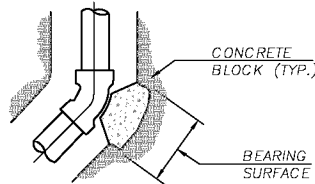




- NOTES
1. CONCRETE VAULT SHALL BE PRECAST CONCRETE OR CAST IN PLACE. CAST IN PLACE SHALL BE CONSTRUCTED AS FOLLOWS:  
WALLS— VERTICAL BARS SHALL BE #4 BARS @ 12" CENTERS  
HORIZONTAL BARS SHALL BE #4 BARS @ 18" CENTERS  
FLOOR— #5 BARS @ 18" CENTERS BOTH WAYS  
LID— #5 BARS @ 12" CENTERS BOTH WAYS  
CLEAR COVER FOR STEEL SHALL BE 2" FOR WALLS AND TOP SLAB. BOTTOM SLAB SHALL BE 3" Fc = 4000 PSI  
THICKNESS OF CONCRETE SHALL BE 6 INCHES.
  2. FLOW METER SHALL BE WATER SPECIALTIES 150 PSI FLANGED TUBE METER WITH SEALED METER MECHANISM—MAGNETIC DRIVE OR EQUAL. INDICATOR SHALL BE A MECHANICAL INDICATOR AND TOTALIZER. VALVES, FITTINGS OR OTHER OBSTRUCTIONS SHALL BE A MINIMUM OF 5 PIPE DIAMETERS UPSTREAM AND 1 PIPE DIAMETER DOWNSTREAM OR AS PER THE MANUFACTURERS RECOMMENDATIONS.
  3. GROUT PIPE PENETRATIONS AND COAT WITH MASTIC.
  4. ALL PIPE AND FITTINGS FROM THE EXISTING SPRING BOX TO THE FLOW METER SHALL BE DUCTILE IRON PIPE. FITTINGS SHALL BE FASTITE FITTINGS OR EQUAL. FITTINGS DOWNSTREAM OF FLOWMETER SHALL BE DUCTILE IRON UNTIL THE HDPE PIPE WITH THE MECHANICAL JOINT ADAPTER.
  5. DUCTILE IRON PIPE SHALL BE CEMENT LINED.
  6. DUCTILE IRON PIPE THAT IS BURIED SHALL BE ENCASED WITH POLYETHYLENE FOR PROTECTION AGAINST EXTERNAL CORROSION.
  7. VAULT ACCESS DOOR SHALL BE 24" X 24" OPENING MADE FROM COR—TEN OR HOT DIP GALVANIZED. DOOR SHALL HAVE A LOCKING MECHANISM. CONTRACTOR TO PROVIDE LOCKS.



TYPICAL SECTION  
OF THRUST BLOCK

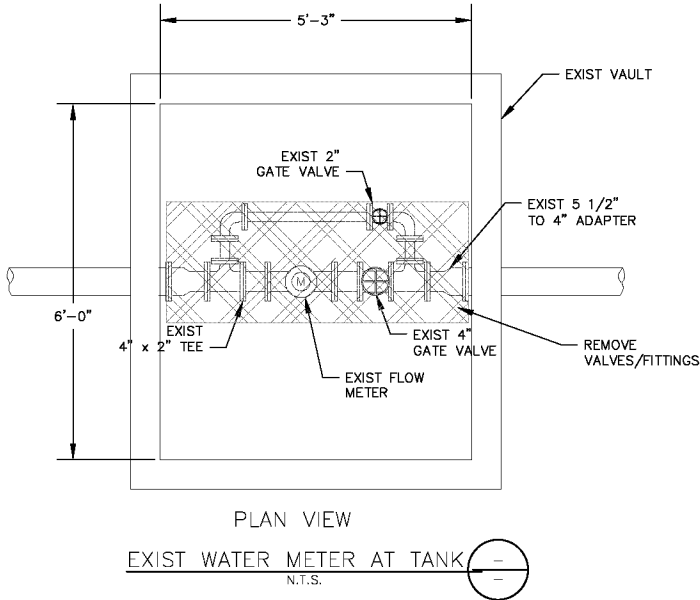
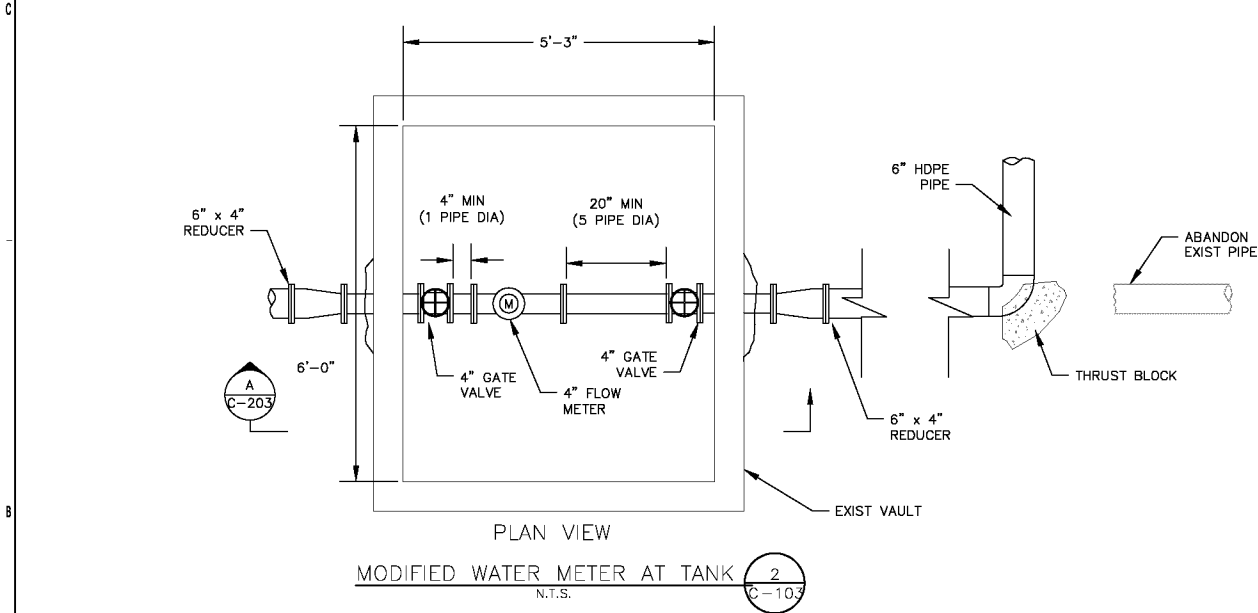


HORIZONTAL BEND

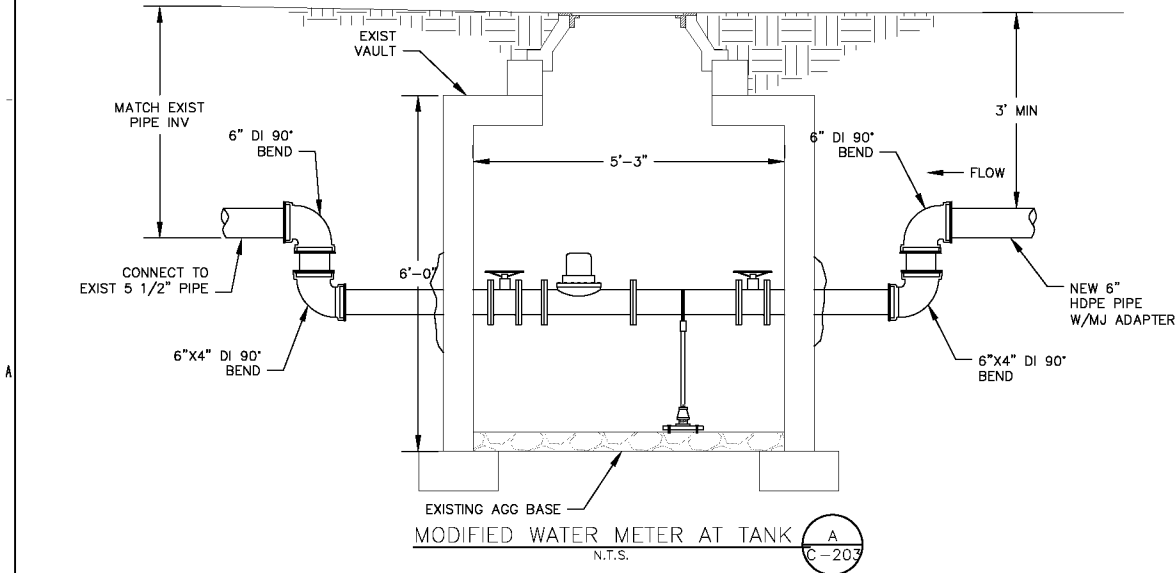
THRUST BLOCK  
BEARING AREAS - S.F.

MAIN SIZE	TEE	90° BEND	45° BEND	22.5° BEND	1.25° BEND
4"	4	4	4	3	2
6"	4	4	4	3	2
8"	5	7	4	3	2
10"	9	12	6	4	3
12"	12	16	9	6	3

\*INCLUDES TEES, PLUGS, CAPS,  
HYDRANTS & VALVES.



- NOTES
1. FLOW METER SHALL BE WATER SPECIALTIES 150 PSI FLANGED TUBE METER WITH SEALED METER MECHANISM—MAGNETIC DRIVE OR EQUAL IF THE EXISTING FLOW METER IS DETERMINED BY OWNER TO BE UNACCEPTABLE. VALVES, FITTINGS OR OTHER OBSTRUCTIONS SHOULD BE A MINIMUM OF 5 PIPE DIAMETERS UPSTREAM AND 1 PIPE DIAMETER DOWNSTREAM FOR WATER SPECIALTIES FLOW METER. REFER TO MANUFACTURER RECOMMENDATIONS FOR SPACING IF EXISTING FLOW METER IS USED.
  2. EXISTING GATE VALVES MAY BE USED WITH OWNER APPROVAL. IF NEW VALVE(S) ARE REQUIRED, CONTRACTOR SHALL INSTALL 4" BUTTERFLY VALVE THAT SHALL BE RATED FOR 150 PSI.
  3. GROUT PIPE PENETRATIONS AND COAT WITH MASTIC.
  4. DUCTILE IRON PIPE SHALL BE CEMENT LINED.
  5. DUCTILE IRON PIPE THAT IS BURIED SHALL BE ENCASED WITH POLYETHYLENE FOR PROTECTION AGAINST EXTERNAL CORROSION.
  6. ADJUST EXISTING PIPE JACKSTAND(S) TO SUPPORT NEW PIPING.



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PROJECT NAME

SLATE CANYON  
PROVO, UTAH

PROJECT TITLE

WATER  
PIPELINE  
REPLACEMENT

OWNER

STATE HOSPITAL

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
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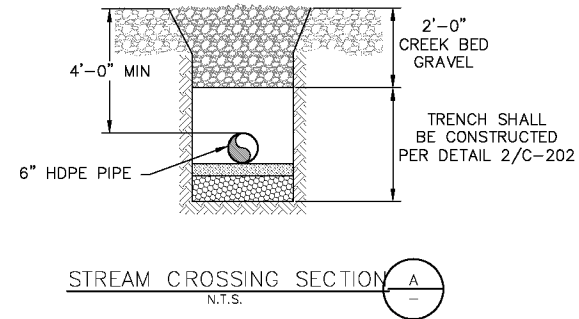
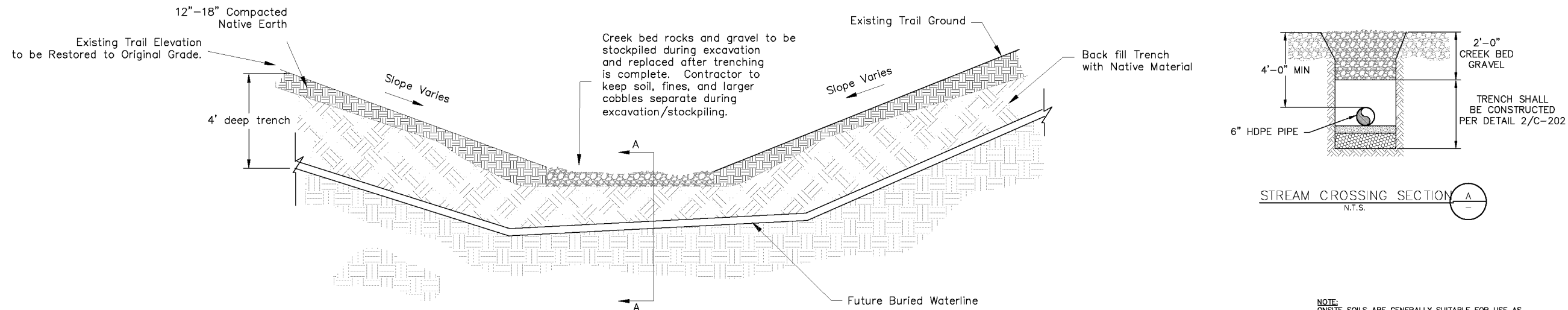
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GENERAL  
DETAILS

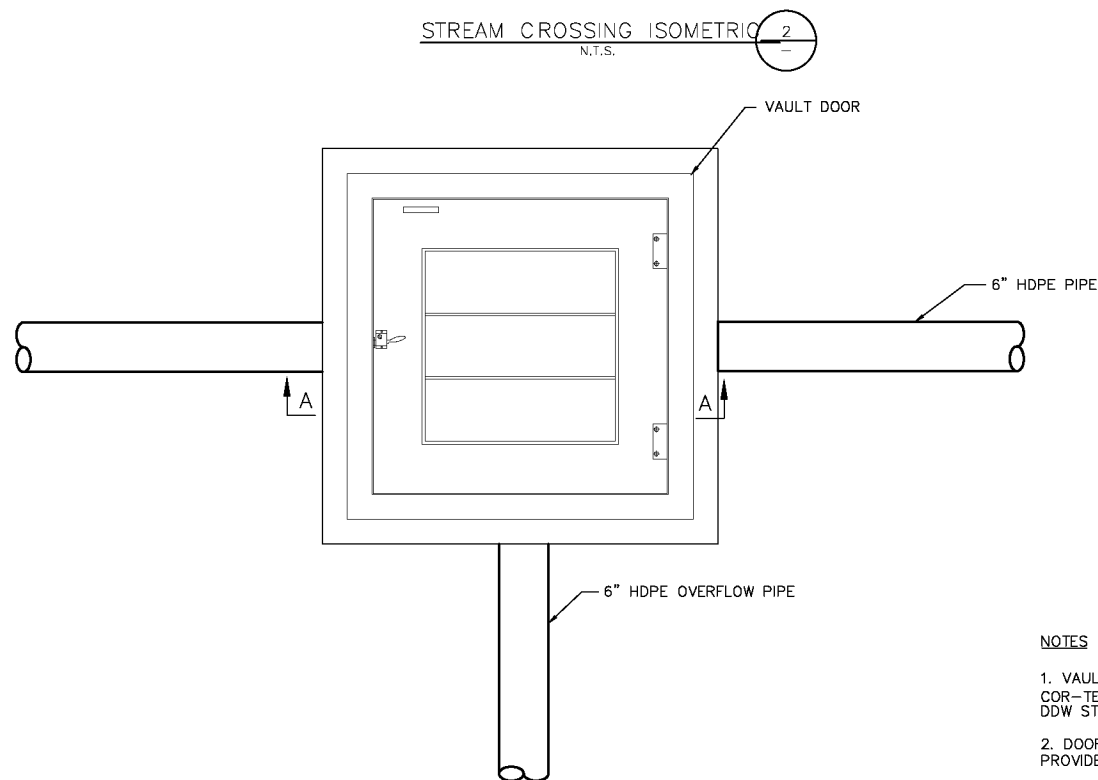
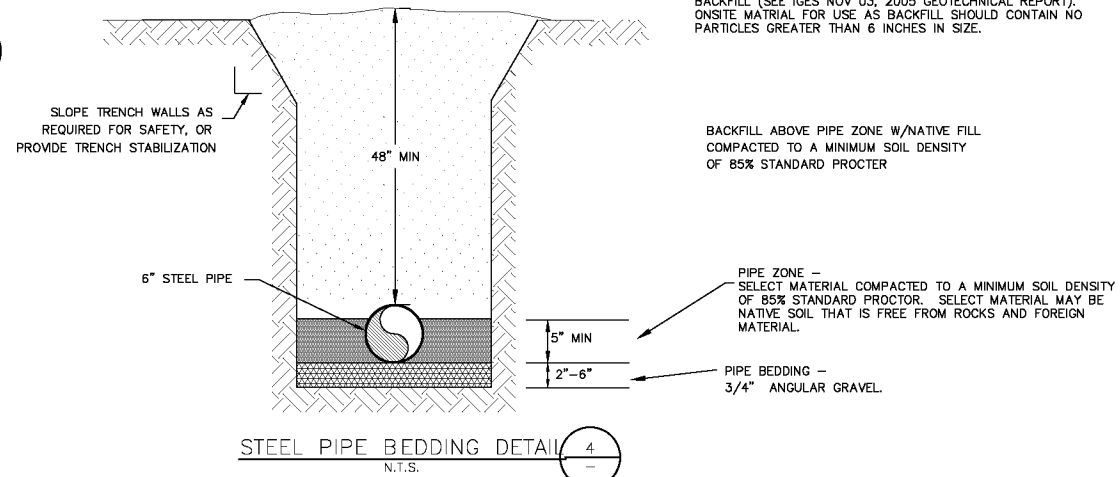
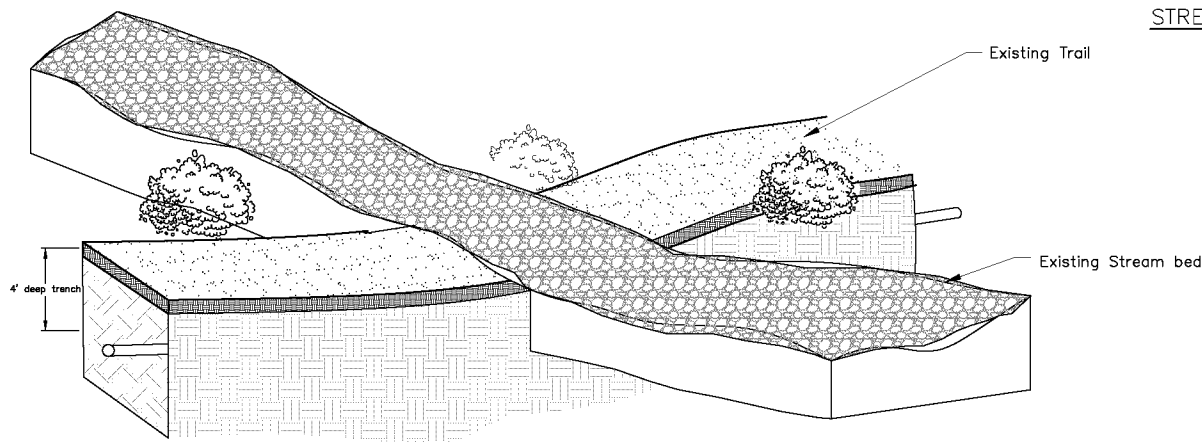
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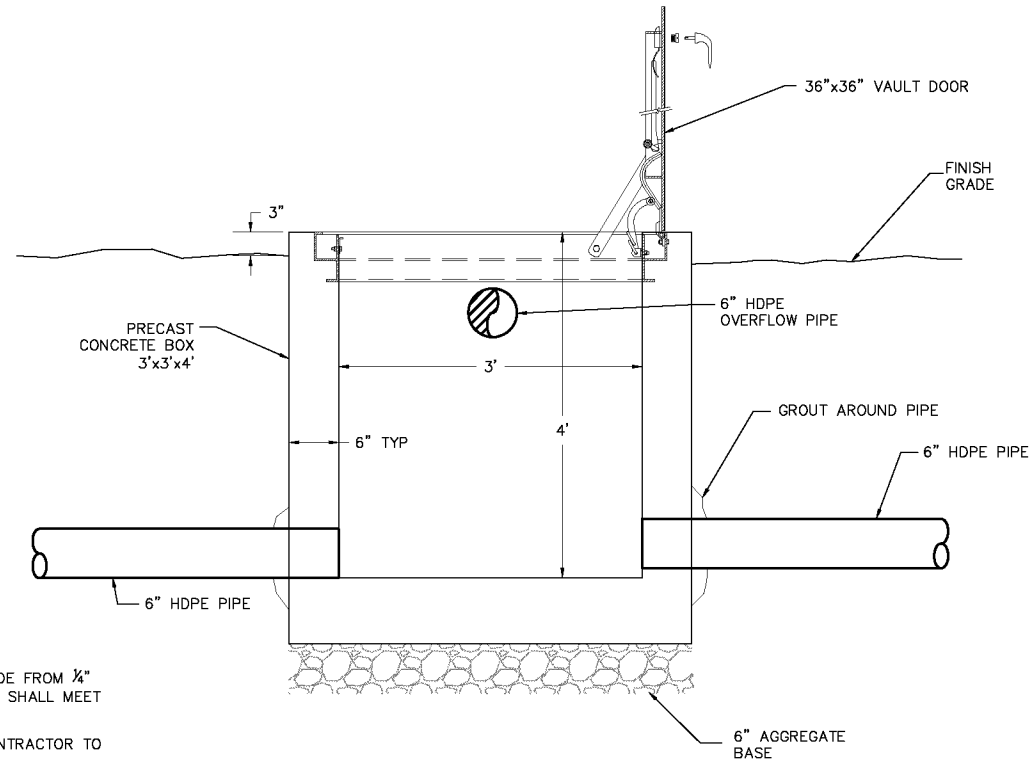
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NOTE:  
ON-SITE SOILS ARE GENERALLY SUITABLE FOR USE AS BACKFILL (SEE IGES NOV 03, 2005 GEOTECHNICAL REPORT). ON-SITE MATERIAL FOR USE AS BACKFILL SHOULD CONTAIN NO PARTICLES GREATER THAN 6 INCHES IN SIZE.



- NOTES
1. VAULT ACCESS DOOR SHALL BE 36" X 36" MADE FROM 1/4" COR-TEN OR 1/4" HOT DIP GALVANIZED STEEL AND SHALL MEET DDW STANDARDS.
  2. DOOR SHALL HAVE A LOCKING MECHANISM. CONTRACTOR TO PROVIDE LOCKS.



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PROJECT NAME

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PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

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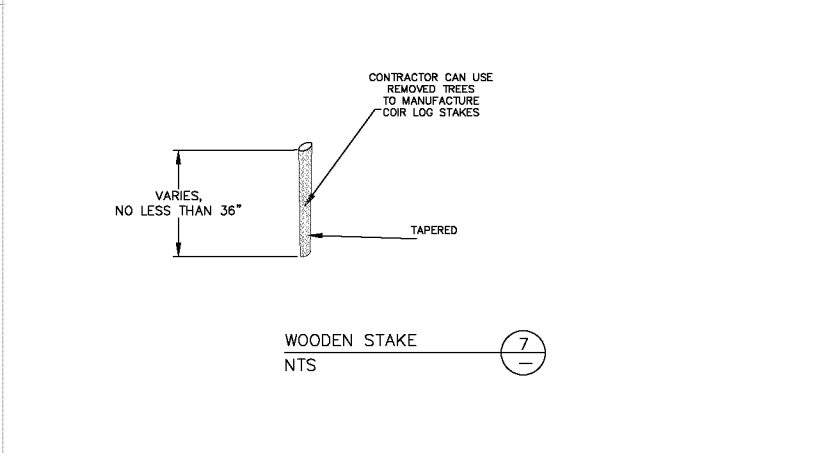
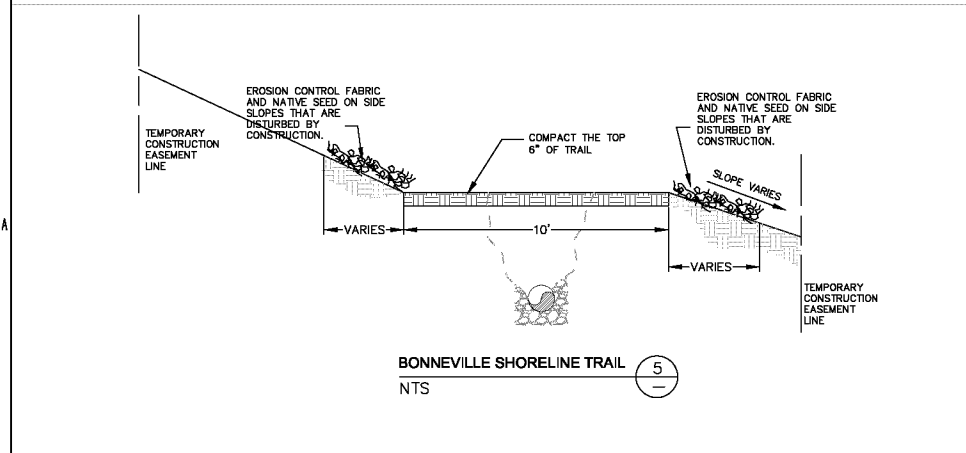
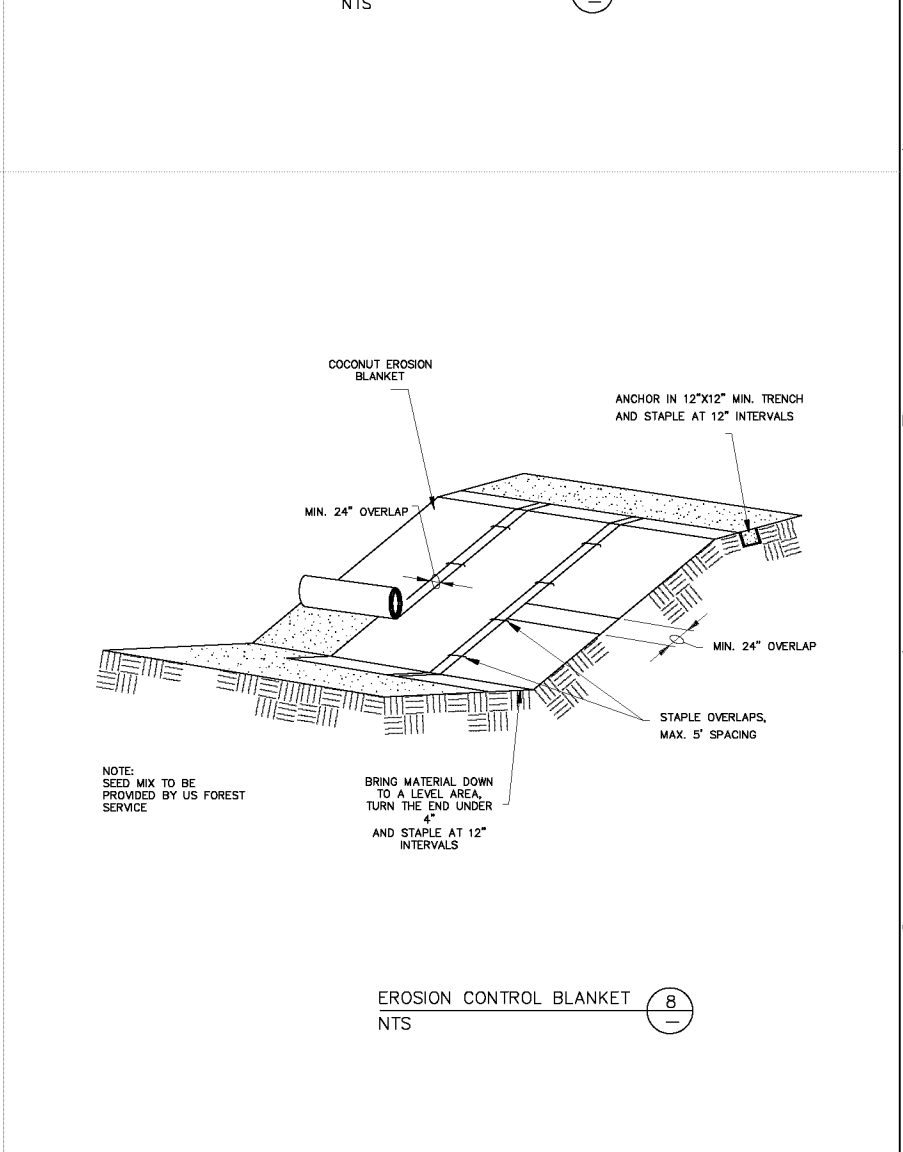
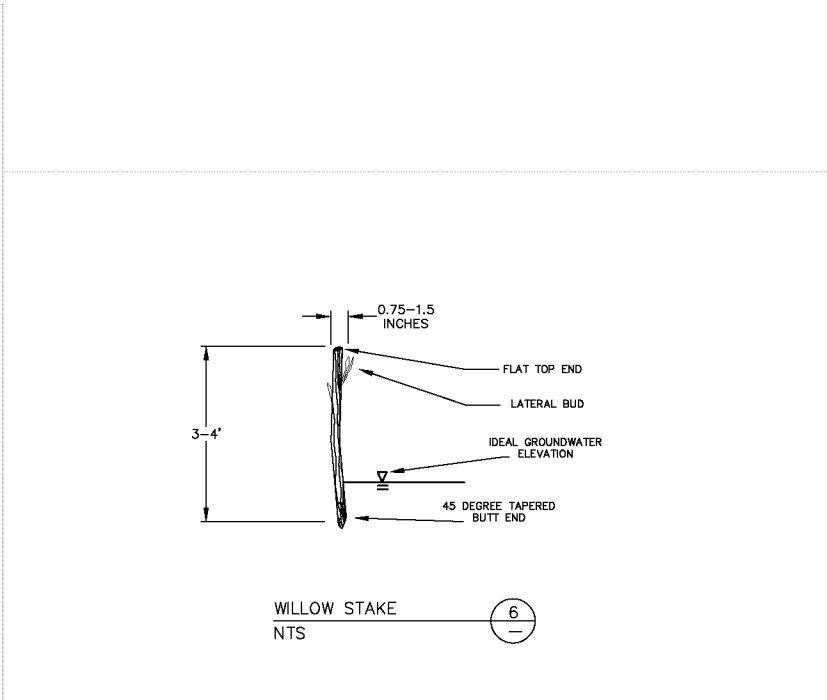
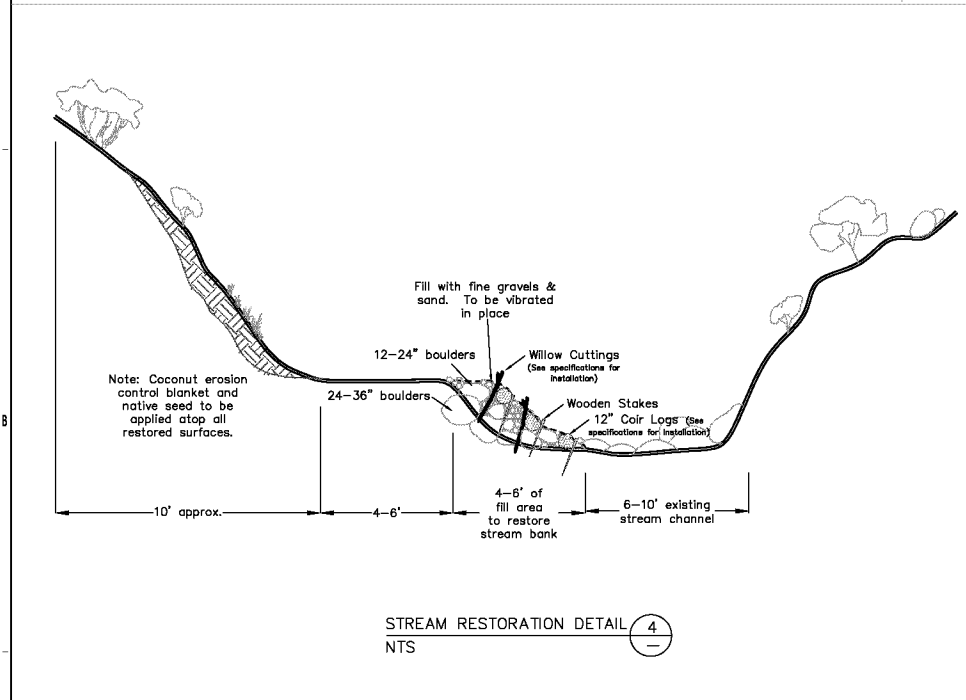
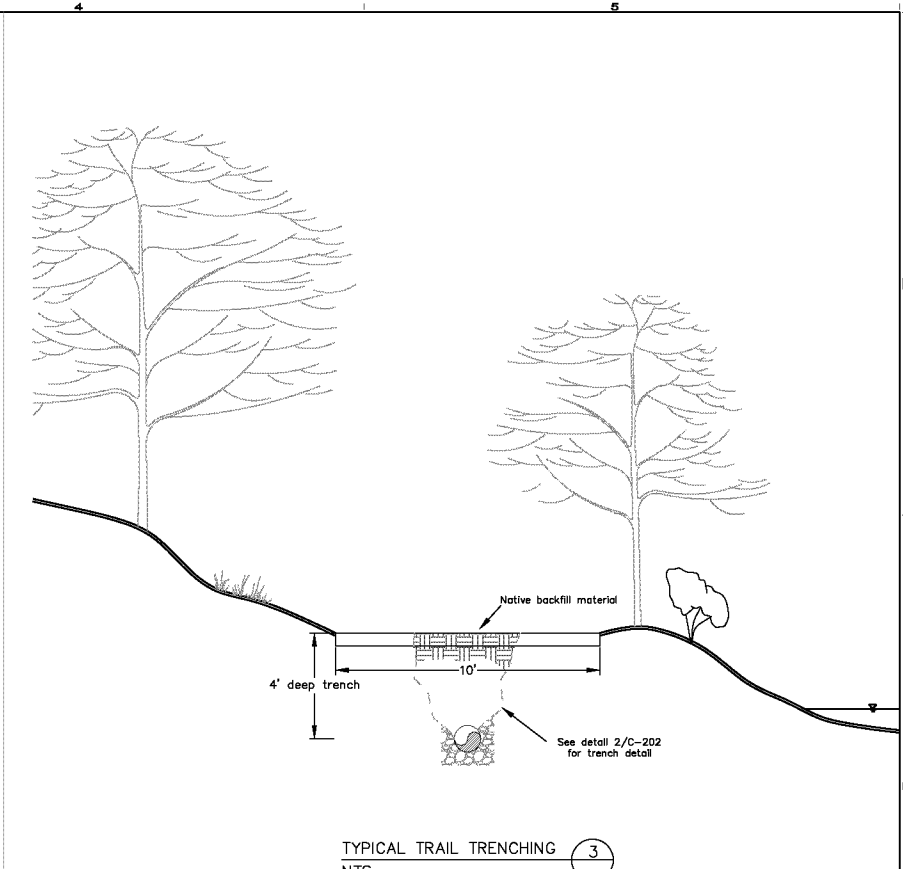
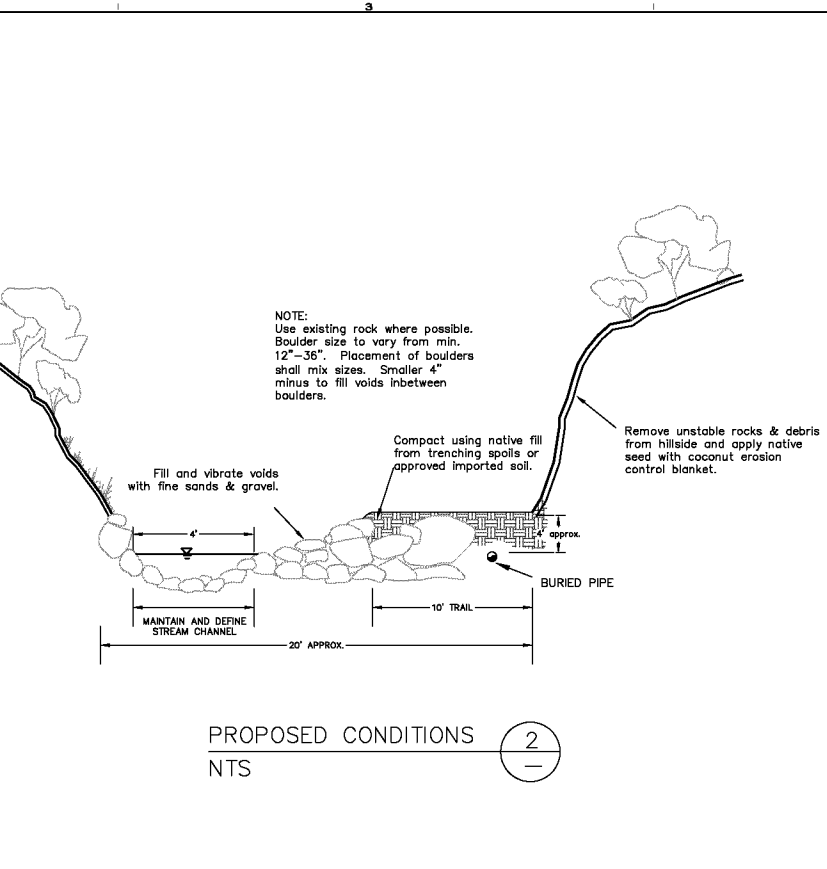
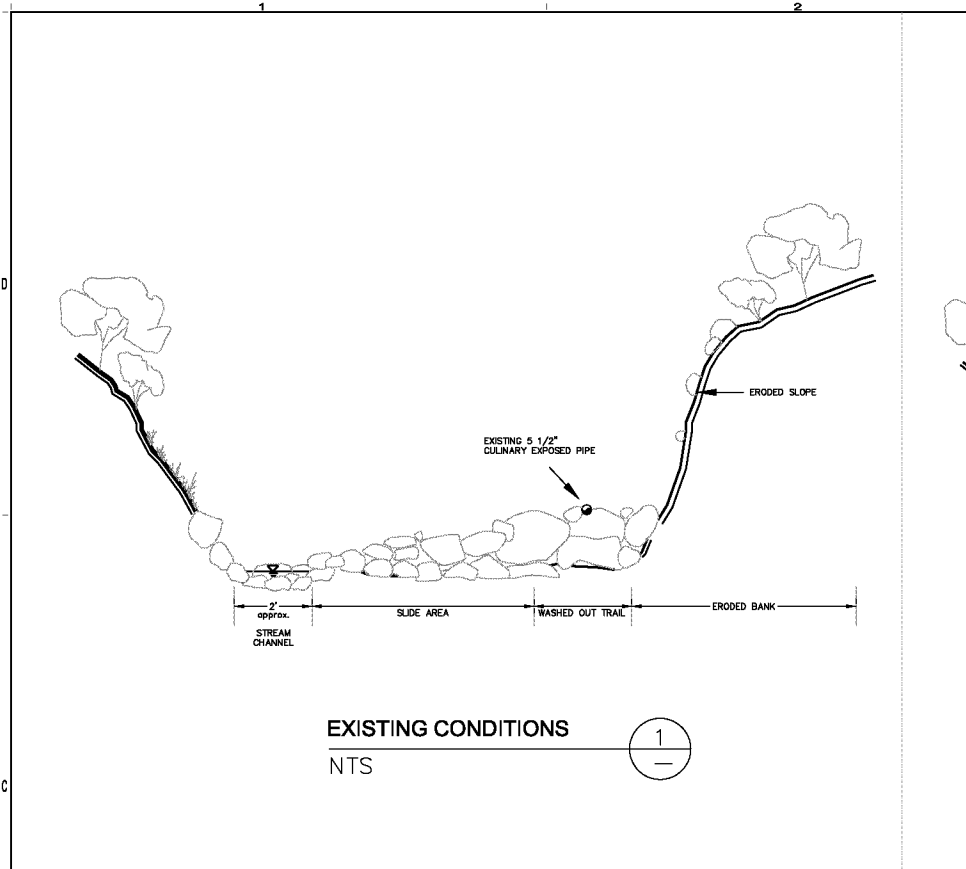
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**GENERAL  
DETAILS**

SHEET NUMBER

**C-204**

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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420

PROJECT NUMBER: 8DFC010100

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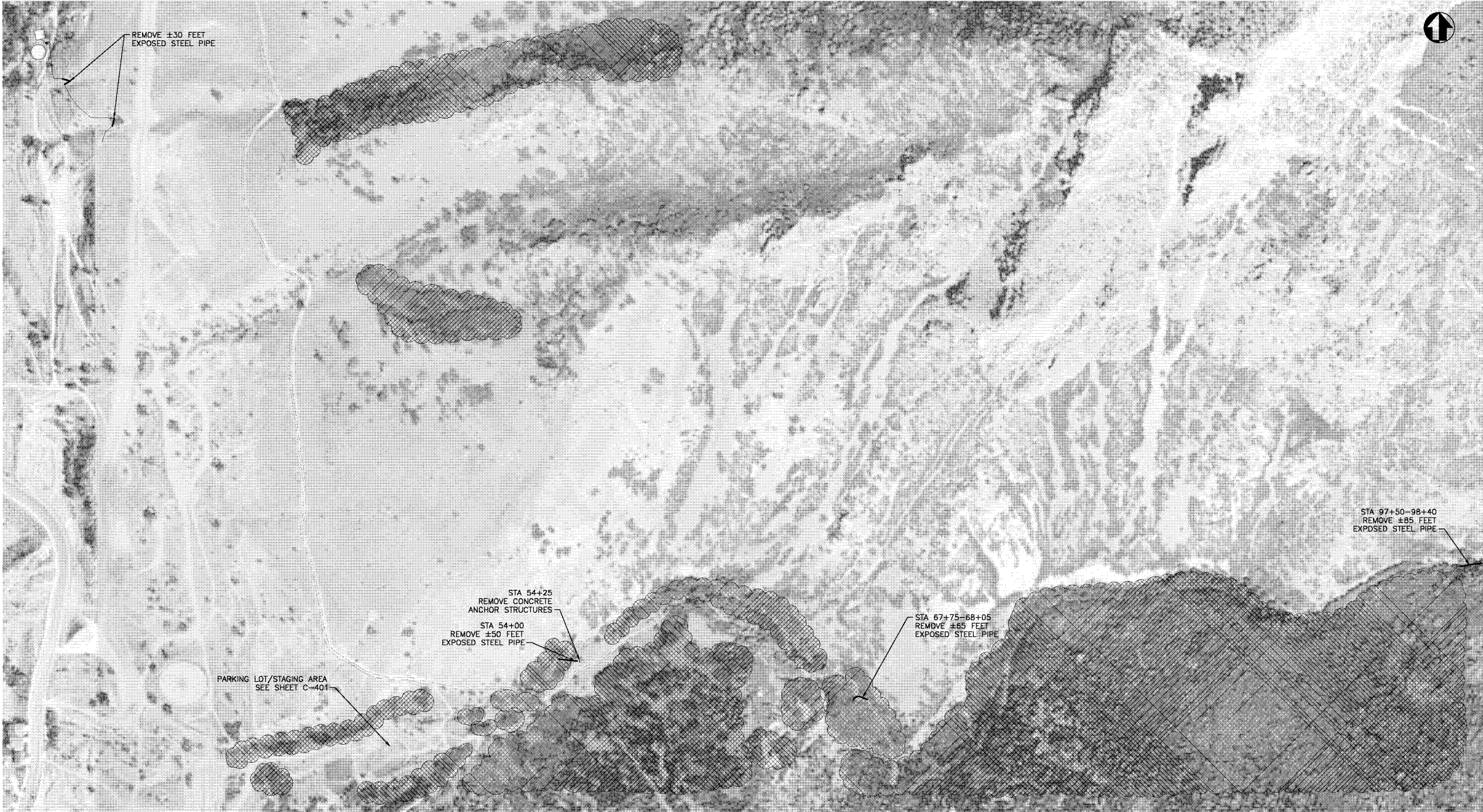
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RESTORATION  
DETAILS

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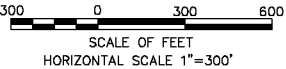
**C-205**

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NOTES

1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
2. PIPE REMOVAL LENGTHS ARE APPROXIMATE. FINAL DECISION FOR REMOVAL SHALL BE DETERMINED BY OWNER, CONTRACTOR AND US FOREST SERVICE DURING PRELIMINARY WALKTHROUGH.
3. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.
4. AREAS WHERE PIPE TO BE REMOVED, CONTRACTOR SHALL BACKFILL WHERE NECESSARY AND GRADE AREA TO EXISTING CONDITIONS WITH NATIVE SOIL AND THEN APPLY APPROVED SEED.



LEGEND

- EXISTING TRAIL
- 100+00 CENTERLINE OF PIPE
- EXISTING BURIED PIPE
- EXISTING EXPOSED PIPE
- TREES AND UNDERGROWTH



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PROJECT NAME

**SLATE CANYON**  
PROVO, UTAH

PROJECT TITLE

**WATER  
PIPELINE  
REPLACEMENT**

OWNER

**STATE HOSPITAL**

MARK	DATE	DESCRIPTION

ISSUE DATE: March 17, 2006

DFCM PROJECT NO. : 00144420  
PROJECT NUMBER: 8DFC010100  
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SHEET TITLE

DEMOLITION

SHEET NUMBER

**C-301**

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NOTES

1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
2. PIPE REMOVAL LENGTHS ARE APPROXIMATE. FINAL DECISION FOR REMOVAL SHALL BE DETERMINED BY OWNER, CONTRACTOR AND US FOREST SERVICE DURING PRELIMINARY WALKTHROUGH.
3. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.
4. AREAS WHERE PIPE TO BE REMOVED, CONTRACTOR SHALL BACKFILL WHERE NECESSARY AND GRADE AREA TO EXISTING CONDITIONS WITH NATIVE SOIL AND THEN APPLY APPROVED SEED.

300 0 300 600  
SCALE OF FEET  
HORIZONTAL SCALE 1"=300'

LEGEND

- EXISTING TRAIL
- CENTERLINE OF PIPE
- EXISTING BURIED PIPE
- EXISTING EXPOSED PIPE
- TREES AND UNDERGROWTH
- WASHOUT AREA



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PROVO, UTAH

PROJECT TITLE

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REPLACEMENT**

OWNER

**STATE HOSPITAL**

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ISSUE DATE: March 17, 2006	
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PROJECT NUMBER:	8DFC010100
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**DEMOLITION**

SHEET NUMBER

**C-302**

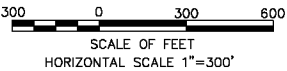
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NOTES

1. EXISTING WATERLINE SHALL BE REMOVED WHEN ENCOUNTERED IN TRENCH AND WHERE IDENTIFIED ON THE PLANS.
2. PIPE REMOVAL LENGTHS ARE APPROXIMATE. FINAL DECISION FOR REMOVAL SHALL BE DETERMINED BY OWNER, CONTRACTOR AND US FOREST SERVICE DURING PRELIMINARY WALKTHROUGH.
3. BLUE STAKES SHALL BE NOTIFIED PRIOR TO DIGGING.
4. AREAS WHERE PIPE TO BE REMOVED, CONTRACTOR SHALL BACKFILL WHERE NECESSARY AND GRADE AREA TO EXISTING CONDITIONS WITH NATIVE SOIL AND THEN APPLY APPROVED SEED.



LEGEND

- EXISTING TRAIL
- CENTERLINE OF PIPE
- EXISTING BURIED PIPE
- EXISTING EXPOSED PIPE
- TREES AND UNDERGROWTH



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PROJECT NAME

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PROJECT TITLE

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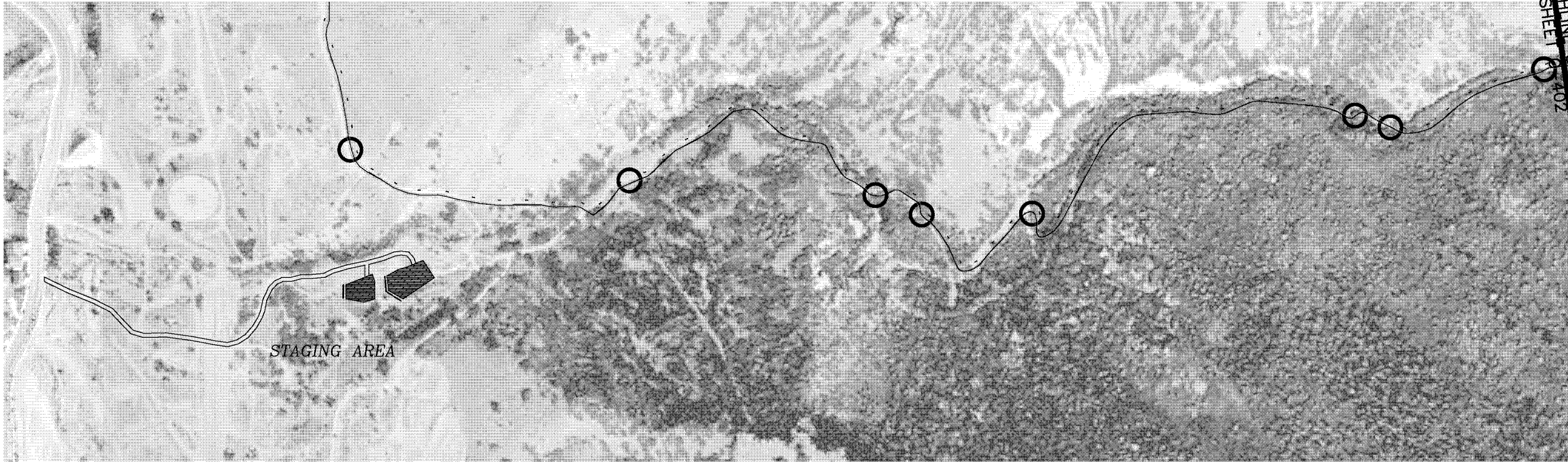
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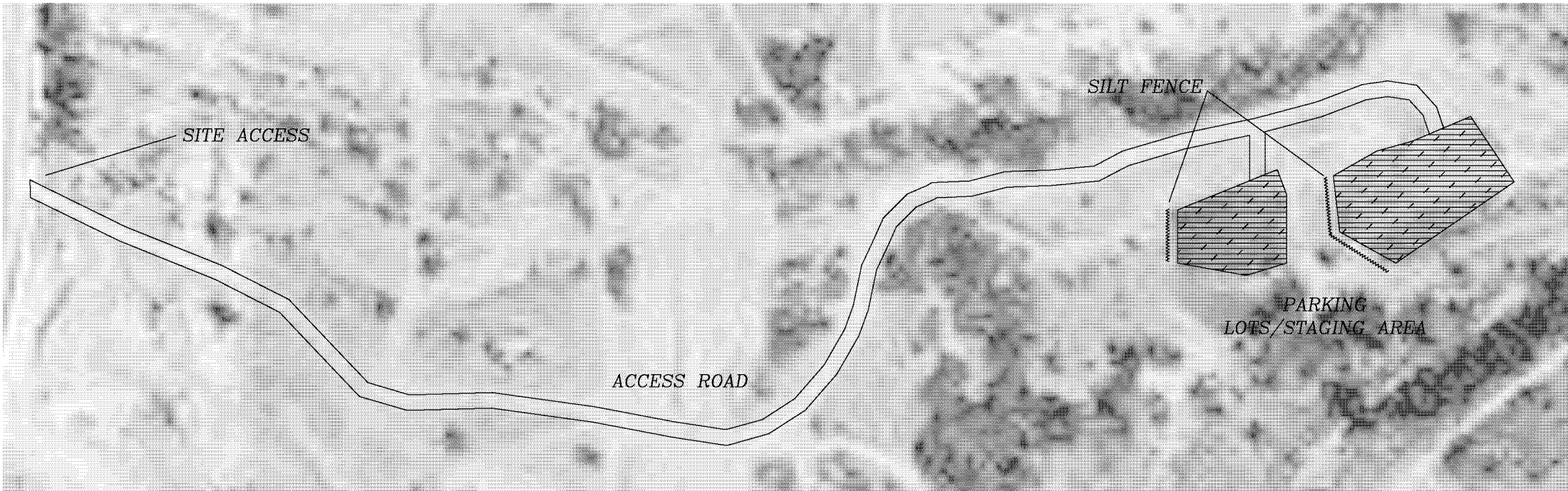
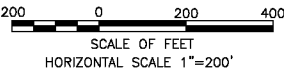
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**C-303**

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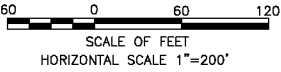
STAGING MAP  
SCALE: 1"=200'



NOTES

1. CONTRACTOR SHALL MINIMIZE DISTURBANCE IN PROPOSED TURN AROUND AREAS.
2. TURN AROUND AREAS SHALL BE RESTORED TO PRECONSTRUCTION CONDITION.
3. ADDITIONAL TURN AROUND AREAS MAY BE PROPOSED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL.

STAGING AREA  
SCALE: 1"=60'



LEGEND

- EXISTING TRAIL
- CENTERLINE OF PIPE
- TURN AROUND AREAS
- ▨ STAGING AREA
- ~ ACCESS ROAD
- ~ SILT FENCE

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PROJECT NAME

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PROJECT TITLE

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PROJECT NUMBER:	8DFC010100
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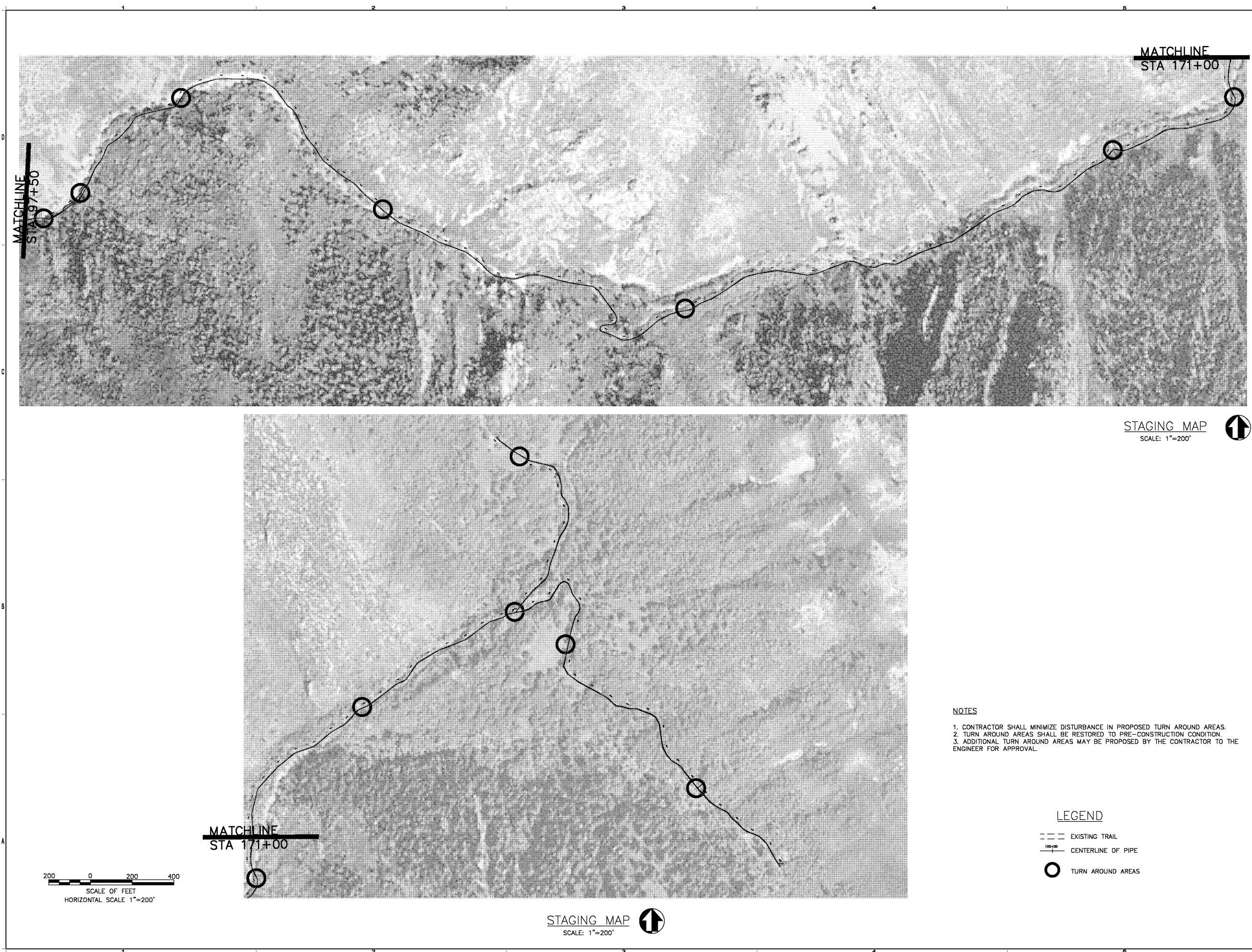
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KEY**

SHEET NUMBER

**C-401**

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PROJECT NAME

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PROJECT TITLE

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PIPELINE  
REPLACEMENT

OWNER

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SHEET TITLE

STAGING  
KEY

SHEET NUMBER

C-402  
42 OF 42

- NOTES
1. CONTRACTOR SHALL MINIMIZE DISTURBANCE IN PROPOSED TURN AROUND AREAS.
  2. TURN AROUND AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
  3. ADDITIONAL TURN AROUND AREAS MAY BE PROPOSED BY THE CONTRACTOR TO THE ENGINEER FOR APPROVAL.

- LEGEND
- EXISTING TRAIL
  - CENTERLINE OF PIPE
  - TURN AROUND AREAS